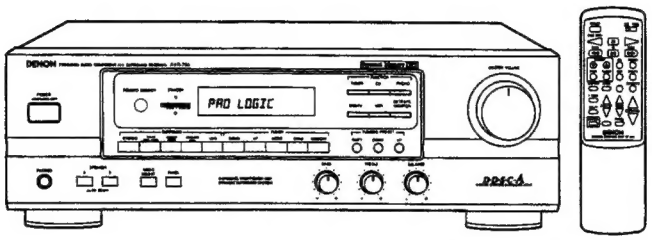
DENON

Hi-Fi AV Surround Receiver

SERVICE MANUAL

MODEL AVR-750/760/ 770/780

AV SURROUND RECEIVER



(Model: AVR-750)

The AVR-770/780 with gold panel and side wood boards.

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● **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

• SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

• 安全注意事項

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

注意：為減少觸電危險，切勿拆下機殼（或機背）。機身內並無用戶修理用零件。請交由專業修理人員修理本機。

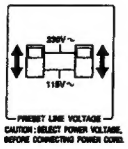
三角形內有箭頭的閃電符號旨在提醒用戶，本產品機殼內有未經絕緣的"危險電壓"，其幅度足以使人觸電而發生危險。

三角形內加感嘆號旨在提醒用戶，有重要的操作與維修說明書配合本機。

警告：為減少著火或觸電危險，切勿讓本機受雨淋濕或受潮。

Make the following settings before connecting the components.
連接各設備之前請先進行下列設定。

■ Setting the line voltage (AVR-750/770)
■ 設定電源電壓 (AVR-750/770)



- The customer can set the VOLTAGE SELECTORS on the back panel for appropriate line voltage by using a screwdriver.
- Do not use excessive force in setting the VOLTAGE SELECTOR KNOB — you may damage it.
- If the VOLTAGE SELECTOR KNOB does not move smoothly, contact your store of purchase.
- 用戶可利用螺絲起子將機背的VOLTAGE SELECTORS（電壓選擇架）設定到適當的電源電壓。
- 操轉電壓選擇架旋鈕時請勿太用力，以免損壞。
- 如果電壓選擇旋鈕轉得不暢順，請向你購入本機的商號查詢。

CAUTION:
- Be sure to set both voltage selectors to same position.
- 各電壓選擇架均須設定到同樣的位置。

NOTE ON USE

• Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack.

• Keep the set free from moisture, water, and dust.

• Do not let foreign objects in the set.

• Handle the power cord carefully. Hold the plug when unplugging the cord.

• Unplug the power cord when not using the set for long periods of time.

• Do not let insecticides, benzene, and thinner come in contact with the set.

* (For sets with ventilation holes)
• Do not obstruct the ventilation holes.

• Never disassemble or modify the set in any way.

使用注意事項

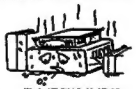
防止高溫
- 勿將本機放置於受烈日曝曬或靠近發熱器材的位置。

機架/機箱安裝注意
- 避免將本機裝於密閉的機架內。
- 裝於機架或機箱時，要配備足夠大的通風孔，以加強散熱。

留意電源線
- 從插座拔出插頭時切勿拉電源線，應該抓住插頭將其拔出。

注意濕汽，水和塵
- 勿將本機放置於濕度很高或多塵的位置。花瓶或其它有水的物件均不宜擺在本機上方。

當你外出時
- 長時間不用本機時，例如外出旅行時，須將插頭拔離電源插座。



備有通風孔的機殼

勿堵塞機殼的通風孔
- 堵塞通風孔會招致本機。
- 各通風孔對本機內部散熱異常重要。必須特別留意，若通風孔有物件阻擋，就會使機內溫度升得很高。

勿讓雜物掉入機內
- 特別要留意勿讓針、髮夾、硬幣等進入本機。

保護機殼
- 避免在本機附近噴漆或殺蟲劑，也勿用汽油天拿水或其它溶劑抹機箱，因這類溶液易引起品質或顏色改變。抹塵要用軟布，在用化學處理過的布揩抹時須小心遵守說明書規定。

勿打開機殼
- 打開機殼頂蓋或底板，及伸手入機殼內修是危險的。切勿打開機殼。如果本機表現有不妥當時，宜立刻拔下電源插頭，再與購入本機的商店或鄰近經銷商聯絡。

■ We greatly appreciate your purchase of the AVR-750/760/770/780.
■ To be sure you take maximum advantage of all the features the AVR-750/760/770/780 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

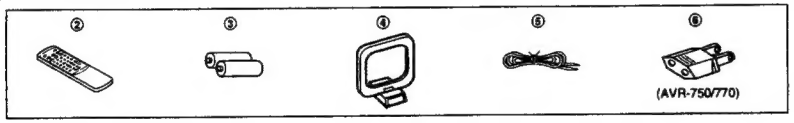
"SERIAL NO. _____
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

TABLE OF CONTENTS

• ACCESSORIES

Check that the following parts are included in addition to the main unit:

①	Operating instructions 1	④	AM loop antenna 1
②	Remote control unit (RC-840) 1	⑤	FM indoor antenna 1
③	R6P/AA batteries 2	⑥	Plug adaptor (AVR-750/770) 1

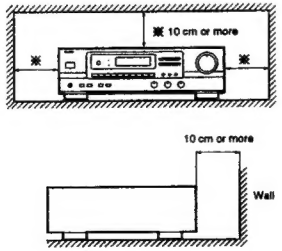


1 INTRODUCTION

• INSTALLATION PRECAUTIONS

Using this receiver or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or picture.
If this should happen, take the following steps:
- Install this unit as far as possible from the tuner or TV set.
- Keep the antenna lines of the tuner or TV as far as possible from the receiver's power cord and connection cables.
- This problem is especially frequent when using indoor antennas. We recommend using outdoor antennas and 75 Ω/ ohms coaxial cables.

For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components.



CAUTION:
Whenever the POWER operation switch is in the OFF position, the unit is still connected on AC line voltage.
Please be sure to unplug the cord when you leave home for, say, a vacation.

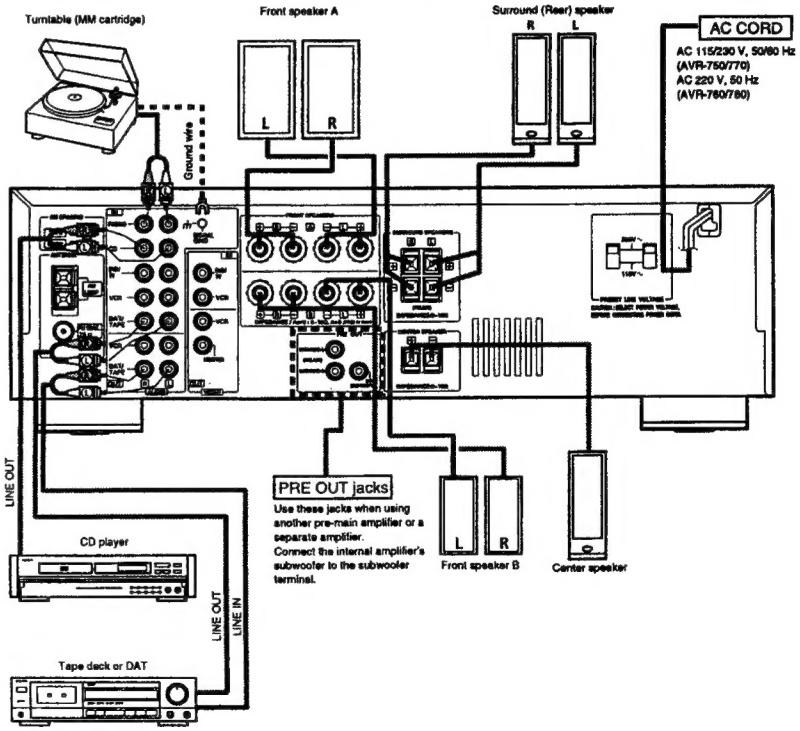
2 CONNECTIONS

- Do not plug in the power cord until all connections have been completed.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Insert the plugs securely. Incomplete connections will result in the generation of noise
- Note that binding pin plug cords together with power cords or placing them near a power transformer will result in the introduction of hum or other noise.
- Noise or humming may be generated if a connected component is used independently without turning the power of the AVR-750/760/770/780 on. If this happens, turn on the power of the AVR-750/760/770/780.

2-1 Connecting the audio components

NOTE:
This unit cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer.

- **Precautions when connecting speakers**
If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not have this effect.

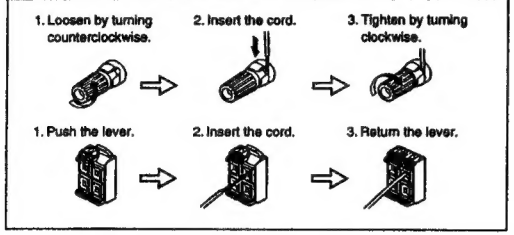


2-2 Speaker System Connections

- This unit can accommodate connections of a total of seven speakers including two set of front speakers (A and B), one set of SURROUND (REAR) speakers, and one center speaker.
- Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.

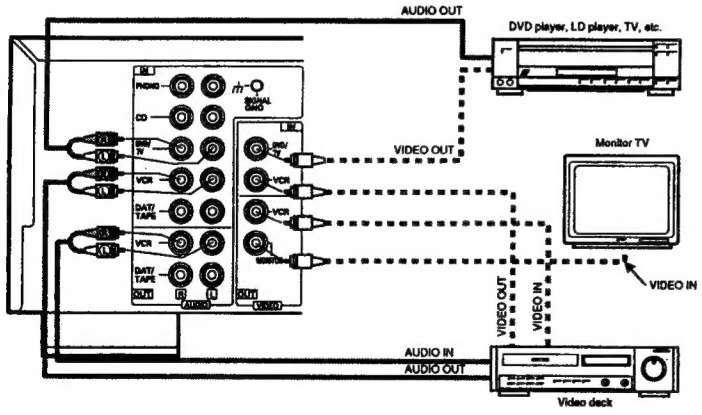
- **Speaker Impedance**
  - When speaker systems A and B are use separately, speakers with an impedance of from 8 to 16 Ω/ohms can be connected.
  - When using with two pairs of speakers (A + B), use speakers with an impedance of 16 Ω/ohms or greater.
  - Speakers with an impedance of 8 to 16 Ω/ohms can be connected for use as center and SURROUND (REAR) speakers.
  - The protection circuit may operate or damage may occur when speakers with an impedance outside of the above range are used.

Connecting the speaker terminals

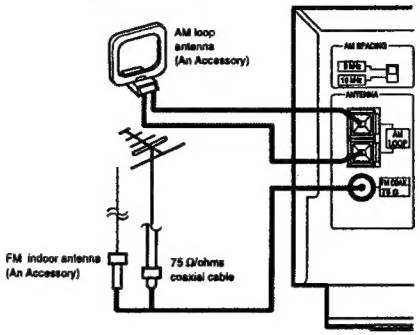


2-3 Connecting the video components

To connect the video signal, connect using a 75 Ω/ohms video signal cable cord. Using an improper cable can result in a drop in sound quality.



2-4 Connecting the antenna terminals



ANTENNA INSTALLATION

- **FM ANTENNA**
  The supplied FM antenna can be used inside wooden houses for receiving local FM stations and other strong FM signals. Stretch out the ends of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. A indoor FM antennas may not consistently ensure stable reception, due to environment changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor FM antenna has been installed. When connecting an outdoor FM antenna, the use of 75 Ω/ohms coaxial cable (3C – 2V, 5C – 2V) is strongly recommended.
- **AM ANTENNA**
  Tune in an AM station (refer to page 12, 13) listen to the sound, then install the antenna in a position as far from the set as possible in which distortion and noise are minimum. Good reception of AM stations is not possible if the loop antenna is not connected or if it is touching metal objects.

NOTES

- This receiver has a full back-up system. When the power is turned on, the INPUT SELECTOR buttons are set to the last mode set before the power was turned off.
- When using this receiver in close proximity to video equipment (TV, VCR, DVD, etc.), noise may be generated in AM broadcasts. To avoid this, keep the receiver as far away from other video components as possible, or place the AM loop antenna where noise is reduced. If the noise is not reduced, turn off the power of the video components when listening to AM broadcasts.

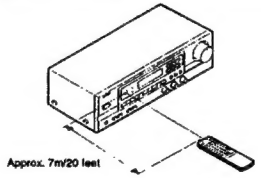
Connection of AM antennas

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820 – 40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

3 REMOTE CONTROL UNIT

Following the procedure outlined below, insert the batteries before using the remote control unit.

■ Range of operation of the remote control unit

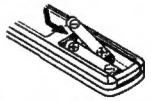
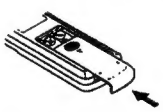


Point the remote control unit at the remote control sensor as shown on the diagram at the left.

NOTES:

- The remote control unit can be used from a straight distance of approximately 7 meters/20 feet, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor, if the remote control sensor is exposed to direct sunlight or other strong light, or if operated from an angle.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

■ Inserting the batteries

1. Open the bottom cover of the remote control unit and remove the battery cover.	2. Insert the two R6P/AA batteries, matching the ⊕ and ⊖ marks on the batteries with those in the case.	3. Close the bottom cover until it clicks shut.
		

NOTES:

- Use only AA, R6P, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes.

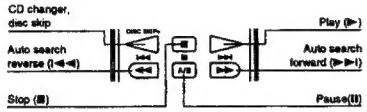
■ System code buttons

DENON remote-controllable audio components can be controlled using this unit's remote control unit.
Note that some components, however, cannot be operated with this remote control unit.

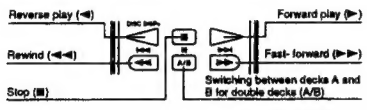
❶ Set the slide switch to the position for the component to be operated (CD or DECK).

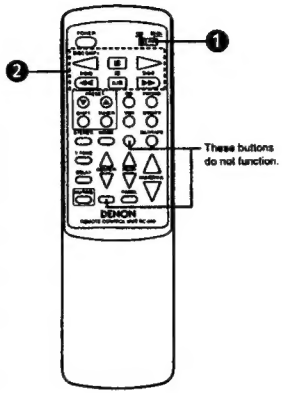
❷ Use the buttons shown below to operate the component.
For details, refer to the respective component's manual.

a. For CD players



b. For tape decks (DECK)





4 OPERATIONS

4-1 Preparations for playback

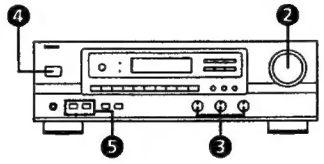
❶ Check that all connections are proper.

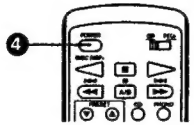
❷ Set to the minimum position.

❸ Set to the center position.

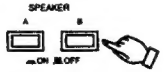
❹ Turn on the power.
Press the POWER operation switch (button).

- ON/STANDBY
  The power turns on sand "STANDBY" indicator is lit.
  Several seconds are required from the time the POWER operation switch is set to the " ON/STANDBY" position until sound is output.
  This is due to the built-in muting circuit that prevents noise when the POWER operation switch is turned on and off.
  Set the POWER operation switch to this position to turn the power on and off from the included remote control unit (RC-840).
- OFF
  The power turns off and "STANDBY" indicator is off.
  In this position, the power cannot be turned on and off from the remote control unit.





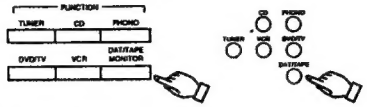
❺ Select the front speakers.
Press the speaker A or B switch to turn the speaker on.



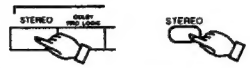
NOTE:
In the standby mode
If you lose the remote control unit, the power can be turned on by initializing the microprocessor.
For the operating procedure, see: 5 INITIALIZATION OF THE MICROPROCESSOR on page 13
Note that this operation will clear the last function memory.

4-2 Playing the program source (Stereo playback)

❶ Select the source to be played.

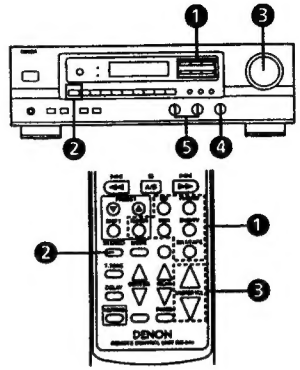


❷ Select the STEREO mode.



❸ Adjust the MASTER VOLUME control.

❹ Adjust the front left/right BALANCE.
Turn the control counterclockwise to reduce the volume of the right channel, clockwise to reduce the volume of the left channel.



❺ Adjust the BASS and TREBLE.

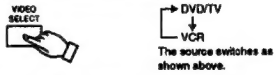
Turn the control clockwise to increase the bass, counterclockwise to decrease it.

Turn the control clockwise to increase the treble, counterclockwise to decrease it.

4-3 Simulcast playback

Use this switch to monitor a video source other than the audio source.

❶ Press and hold the VIDEO SELECT button until the desired source appears on the display.



The source switches as shown above.

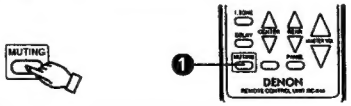
* Cancelling simulcast playback
- Press the VIDEO SELECT button once more.
- Select the VIDEO function.

4-4 Using the muting function

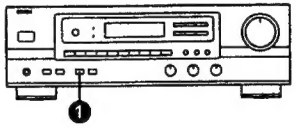
Use this to turn off the audio output temporarily.

❶ Press the MUTING button.

* Cancelling MUTING mode.
Press the MUTING button again.



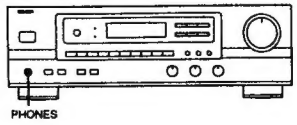
This function can only be set from the remote control unit.
The STANDBY LED flashes when the muting function is set.



4-5 Listen with headphones

Connect the headphones to the PHONES jack.
When listening with headphones privately, set A, B SPEAKER switches and the superwoofer's power switch to the OFF position and set the stereo surround mode.

NOTE:
To prevent hearing loss, do not raise the volume level excessively when using headphones.



4-6 Recording the program source
(recording the source currently being monitored)

❶ Follow steps ❶ to ❸ under "Playing the program source". (refer to page 9)

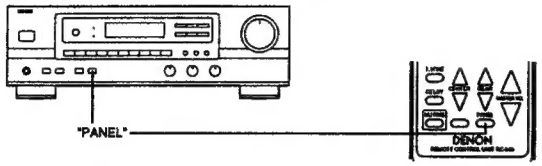
❷ Start recording on the tape or video deck. For instructions, refer to the component's operating instructions.

Simultaneous recording

The signals of the source selected with the function selector button are output simultaneously to the DAT/TAPE and VCR REC OUT jacks. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on both decks.
In addition, if the TAPE MONITOR (DAT/TAPE) button is pressed, the audio signals from the tape deck are output to the VCR AUDIO REC OUT jacks.

4-7 Front panel display

Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source by pressing the PANEL button.



4-8 Using the surround function
Types of surround modes and their characteristics

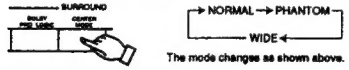
1	DOLBY PRO LOGIC	Use this when playing program sources recorded in Dolby Surround or Dolby Stereo.
2	CONCERT HALL	Use this setting to create the atmosphere of a concert hall. There will be no output from the center speaker.
3	LIVE	Use this setting to create the atmosphere of watching a live performance. There will be no output from the center speaker.

• Before using the surround function

Make the following adjustments before using the surround function.

❶ Set the Dolby Pro Logic mode.

❷ Select the center mode (refer to page 11). Select the center mode according to the center speaker.



The mode changes as shown above.

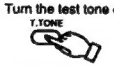
❸ Emit the test tone.

Test tones are produced from the speakers in the order shown below, at 4 second intervals for the first two cycles, 2 second intervals after that.

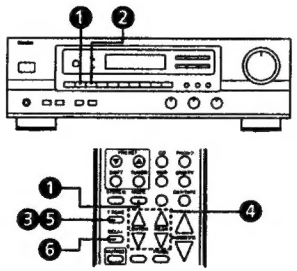
FL → C → FR → S

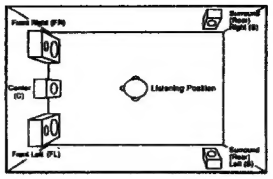
❹ Adjust the center and surround (rear) levels to set the volume of the speakers to the same level.

❺ Turn the test tone off.

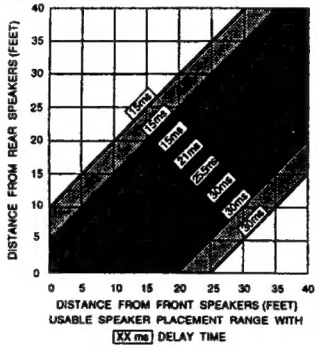


❻ Adjust the delay time and seating position as necessary (refer to page 11).





Dolby Surround systems with Pro Logic decoding most closely replicate the Dolby Stereo theatrical experience. Only two surround speakers are necessary in the home listening environment to provide the same enveloping soundfield as multiple surround speakers in the theater.



Center Mode

Set the center mode as described below, according to the type of center speaker being used.

Normal mode: This mode is suited for an arrangement in which the center channel speaker is smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel output signals greater than 100Hz. As a result, the bass of the left and right channels increases the apparent deepness of the sound.

Wide mode: This mode is suited for an arrangement in which the center channel speaker is of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your enjoyment.

Phantom mode: Use this mode when center channel speaker is not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.

Delay Time

The optimum delay time will differ depending on the listening position. Referring to the chart at left, set the optimum delay time for your room's space and seating position. For example, when the distance from the front speakers to the listening position is 20 feet and that from the surround (rear) speakers to the listening position is 15 feet, the optimum delay time will be 21 ms. The variable range of the delay time differs depending on the mode.

Personal Memory Plus function .... for EASY TO USE

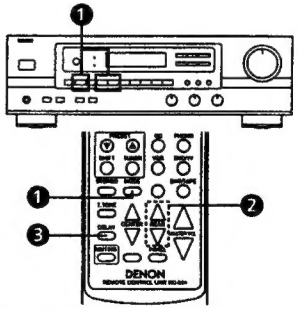
The AVR-750/760/770/780 automatically stores the surround mode adding effects for all input sources. The corresponding surround mode is recalled automatically each time an input source is selected.

• Using the surround function

❶ Select the surround mode according to the input source.

❷ If necessary, adjust the levels.

❸ Adjust the parameters to the desired settings.



Operating Possible in the Various Surround Modes

The following is a list of the buttons and functions which can be operated during the different surround modes. Figures in parentheses indicate adjustment ranges.

		OUTPUT	CENTER LEVEL	SURROUND (REAR) LEVEL	CENTER MODE	TEST TONE	DELAY TIME
DOLBY PRO LOGIC	NORMAL	O	O (0 - - 24dB)	O (0 - - 24dB)	O	O	O (15 - 30ms)
	PHANTOM	O	X	O (0 - - 24dB)	O	O	O (15 - 30ms)
	WIDE	O	O (0 - - 24dB)	O (0 - - 24dB)	O	O	O (15 - 30ms)
CONCERT HALL		O	X	O (0 - - 24dB)	Δ*1	X	O (0 - 33ms)
LIVE		O	X	O (0 - - 24dB)	Δ*1	X	O (0 - 33ms)

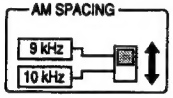
*1 Switches to the Dolby Pro Logic from any modes other than Dolby Pro Logic. The level of the center and surround (rear) channels can be adjusted by 2 dB step. The delay time can be set by 1.5 ms step.

O: Operation possible X: Operation not possible

- **The sound may be distorted for some sources if the surround (rear) level is raised during surround playback. If this happens, lower the surround (rear) level.**

5 LISTENING TO THE RADIO

5-1 Setting the frequency step (AVR-750/770)



To know the tuning frequency steps, see the Table of Tuning Frequency Steps.

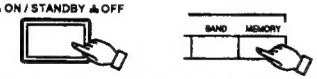
TABLE OF TUNING FREQUENCY STEPS		
BAND	FM	AM
STEP AM SPACING: 9 kHz	0.05 MHz	9 kHz
STEP AM SPACING: 10 kHz	0.2 MHz	10 kHz

The tuning frequency steps are switchable between 9 kHz and 10 kHz for AM, between 0.05 MHz and 0.2 MHz for FM. To switch the tuning frequency steps, disconnect the power plug and set the AM SPACING switch (①) on the rear panel to the desired position. Then plug in the AC mains again.

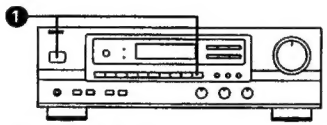
5-2 Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

❶ Turn on the unit while holding in the MEMORY button. The unit automatically begins searching for FM broadcast stations.



❷ When the first FM broadcast station is found, that station is stored in the preset memory at channel A1. Subsequent stations are automatically stored in order at preset channels A2 to A8, B1 to B8, C1 to C8, D1 to D8 and E1 to E8, for a maximum of 40 stations.

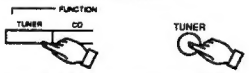


❸ Channel A1 is tuned in after the auto preset memory operation is completed.

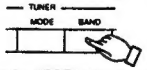
NOTES:
- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- To interrupt this function, press the POWER operation button.

5-3 Auto tuning

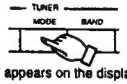
❶ Set the input function to "TUNER".



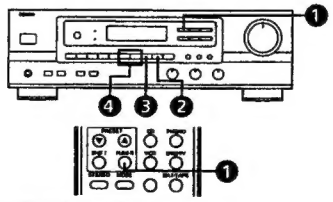
❷ Watching the display, press the BAND button to select the desired band (AM or FM).



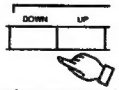
❸ Press the MODE button to set the auto tuning mode.



"AUTO" appears on the display.



❹ Press the TUNING UP or DOWN button.



Automatic searching begins, then stops when a station is tuned in. If tuning does not stop at the desired station, use to the "Manual tuning" operation.

5-4 Manual tuning

❶ Set the input function to "TUNER".

❷ Watching the display, press the BAND button to select the desired band (AM or FM).

❸ Press the MODE button to set the manual-tuning mode. Check that the display's "AUTO" indicator turns off.

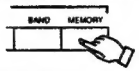
❹ Press the TUNING UP or DOWN button to tune in the desired station. The frequency changes continuously when the button is held in.

NOTES:
- When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcasts tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.
- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.

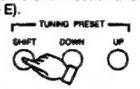
5-5 Preset memory

❶ Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.

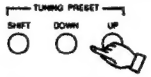
❷ Press the MEMORY button.

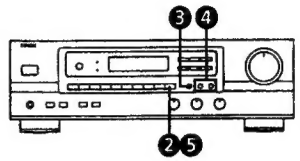


❸ Press the SHIFT button and select the desired memory block (A to E).

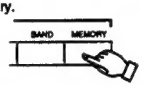


❹ Press the PRESET UP or DOWN button to select the desired preset channel (1 to 8).





❺ Press the MEMORY button again to store the station in the preset memory.

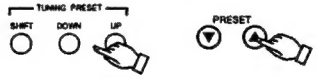


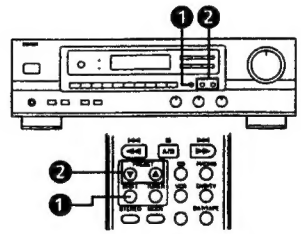
To preset other channels, repeat steps ❷ to ❺.
A total of 40 broadcast stations can be preset – 8 stations (channels 1 to 8) in each of blocks A to E.

5-6 Recalling preset stations

❶ Watching the display, press the SHIFT button to select the preset memory block.

❷ Watching the display, press the PRESET UP or DOWN button to select the desired preset channel.





6 INITIALIZATION OF THE MICROPROCESSOR

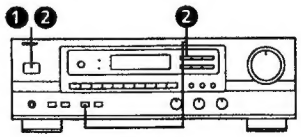
When the indication of the display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following procedure.

❶ Switch off the unit using the main unit's POWER operation switch.

❷ Hold the following TUNER button and VIDEO SELECT button, and turn the main unit's POWER operation switch on.

❸ Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.

❹ Switch on the unit and the microprocessor will be initialized.



NOTE:
- When the microprocessor is reset, all the settings you have made are reset to the values set upon shipment from the factory.

7 LAST FUNCTION MEMORY

- This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
  This function eliminates the need to perform complicated resettings when the power is switched on.
- This unit is also equipped with a back-up memory. This function provides approximately one week of memory storage with the power cord disconnected.

8 TROUBLESHOOTING

If a problem should arise, first check the following:
1. Are the connections correct?
2. Have you followed all operational instructions correctly?
3. Are the speakers, turntable, and other components operating properly?
If the receiver is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

	Symptom	Cause	Measures	Page
Common problems arising when listening to the CD, records, tapes, and FM broadcasts, etc.	DISPLAY not lit and sound not produced when power operation switch set to on.	• Power cord not plugged in securely.	• Check the insertion of the power cord plug.	5
	DISPLAY lit but sound not produced.	• Speaker cords not securely connected. • Speaker switch is off. • Improper position of the audio function button. • Volume control set to minimum. • MUTING is on.	• Connect securely. • Turn on speaker switch. • Set to a suitable position. • Turn volume up to suitable level. • Switch off MUTING.	5, 6 8 9 9 9
	–PROTECT– display appears.	• Speaker terminals are short-circuited. • Block the ventilation holes of the set. • The unit is operating at continuous high power conditions and/or inadequate ventilation.	• Switch power off, connect speakers properly, then switch power back on. • Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the power back on. • Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the power back on.	5, 6 3, 4 3, 4
	Sound produced only from one channel.	• Incomplete connection of speaker cords. • Incomplete connection of input/output cords. • Left/right balance is off.	• Connect securely. • Connect securely. • Adjust balance knob properly.	5, 6 5, 6 8
	Positions of instruments reversed during stereo playback.	• Reverse connections of left and right speakers or left and right input/output cords.	• Check left and right connections.	5, 6
	Sound seems distorted.	• Surround (rear) level is too high.	• Set the Surround (rear) level to lower level.	10, 11
When playing records	Humming noise produced when record is playing.	• Ground wire of turntable not connected properly. • Incomplete PHONO jack connection. • TV or radio transmission antenna nearby.	• Connect securely. • Connect securely. • Contact your store of purchase.	5 5 –
	Howling noise produced when volume is high.	• Turntable and speaker systems too close together. • Floor is unstable and vibrates easily.	• Separate as much as possible. • Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not equipped with insulators, use audio insulators (commonly available).	– –
	Sound is distorted.	• Stylus pressure too weak. • Dust or dirt on stylus. • Cartridge defective.	• Apply proper stylus pressure. • Check stylus. • Replace cartridge.	– – –
	Volume is weak.	• MC cartridge being used.	• Replace with MM cartridge or use a head amplifier or step-up transformer.	5
Remote control unit	Receiver does not operate properly when remote control unit is used.	• Batteries dead. • Remote control unit too far from receiver. • Obstacle between receiver and remote control unit. • Different button is being pressed. • ⊕ and ⊖ ends of battery inserted in reverse.	• Replace with new batteries. • Move closer. • Remove obstacle. • Press the proper button. • Insert batteries properly.	7 7 7 7, 8 7

9 SPECIFICATIONS

- **Audio Section**

(Power amplifier)
Rated output:
55 W + 55 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % THD)
80 W + 80 W (6 Ω/ohms, EIAJ)

(All properties shown are only for the power amplifier stage.)
CENTER
55 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % THD)
80 W (6 Ω/ohms, EIAJ)
SURROUND (REAR)
25 W + 25 W (8 Ω/ohms, 1 kHz with 0.9 % THD)
35 W + 35 W (6 Ω/ohms, EIAJ)

Output terminals:
Front: 8 to 16 Ω/ohms
Center: 8 to 16 Ω/ohms
Surround (Rear): 8 to 16 Ω/ohms

(Pre-amplifier)
Line input (Each line input – FRONT SP OUT)
Input sensitivity/impedance: 200 mV/47 kΩ/kohms — PHONO (MM): 2.5 mV/47kΩ/kohms
Frequency response: 10 Hz to 50 kHz: ± 3 dB
Tone control range: BASS: ± 10 dB at 100 Hz
TREBLE: ± 10 dB at 10 kHz
Signal-to-noise ratio: 92dB (STEREO)
Rated output (Pre out): 1.2 V
Phono equalizer (PHONO input – REC OUT)
RIAA deviation: ± 1 dB (20 Hz to 20 kHz)
Signal-to-noise ratio: 74 dB (A weighting, with 5 mV input)
Rated output/Maximum output: 200 mV/8 V
Distortion factor: 0.03 % (1 kHz, 1 V)

- **Tuner Section**

	[FM] (note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	[AM]
Receiving Range:	(AM SPACING: 9 kHz) 87.50 to 108.00 MHz (50 kHz step) (AM SPACING: 10 kHz) 87.50 to 107.90 MHz (200 kHz step)	(AM SPACING: 9 kHz) 522 to 1,611 kHz (9 kHz step) (AM SPACING: 10 kHz) 520 to 1,710 kHz (10 kHz step)
Usable Sensitivity:	1.0 µV (11.2 dBf)	18 µV
50 dB Quieting Sensitivity:	MONO 1.6 µV (15.3 dBf) STEREO 23 µV (38.5 dBf)	
Signal to Noise Ratio (IHF-A):	MONO 80 dB STEREO 75 dB	50 dB
Total Harmonic Distortion (at 1 kHz)	MONO 0.15 % STEREO 0.3 %	

- **Video Section**

Standard video jacks
Input and output level/impedance: 1 Vp-p/75 Ω/ohms
Frequency response: 2 Hz to 8 MHz + 0, – 3 dB

- **General**

Power supply: AC 115/230V, 50/60 Hz (AVR-750/770)
AC 220V, 50 Hz (AVR-760/780)
Power consumption: 180 W
Maximum external dimensions: 434 (W) x 142 (H) x 315 (D) mm (17-3/32" x 5-19/32" x 12-25/64") (AVR-750/760)
471 (W) x 143 (H) x 315 (D) mm (18-35/64" x 5-41/64" x 12-25/64") (AVR-770/780)
Weight: 7.8 kg (17 lbs 7 oz) (AVR-750/760)
8.8 kg (19 lbs 7 oz) (AVR-770/780)

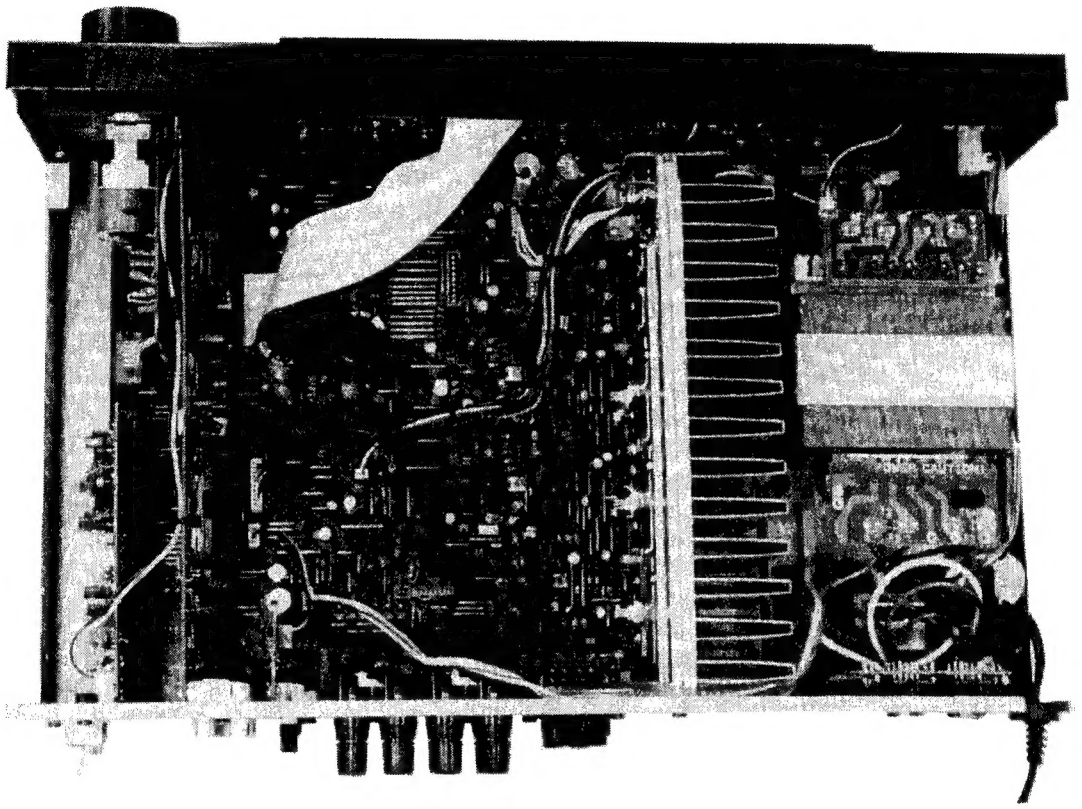
- **Remote control unit**

System remote control
RC-840:
Total buttons: 28
DENON system code
CD player: 6 buttons } (SWITCHED)
Cassette deck: 6 buttons }
AVR-750/760/770/780 fixed codes: 22 buttons
Batteries: R6P/AA Type (two batteries)
External dimensions: 51 (W) x 175 (H) x 18.5 (D) mm (2" x 6-57/64" x 47/64")
Weight: 100 g (Approx. 3.5 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

WIRE ARRANGEMENT

In case of wires require unclasping or loosening to move the location to perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were orginally placed, or causing to produce a noise may occasionally occur.

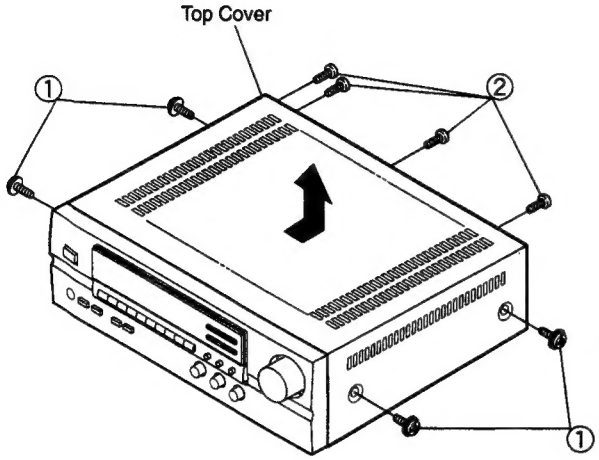


DISASSEMBLY

(To reassemble reverse disassembly)

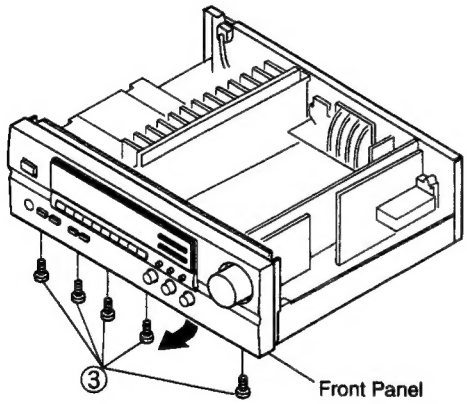
1. Top Cover

Remove 4 screws ① and 4 screws ② .



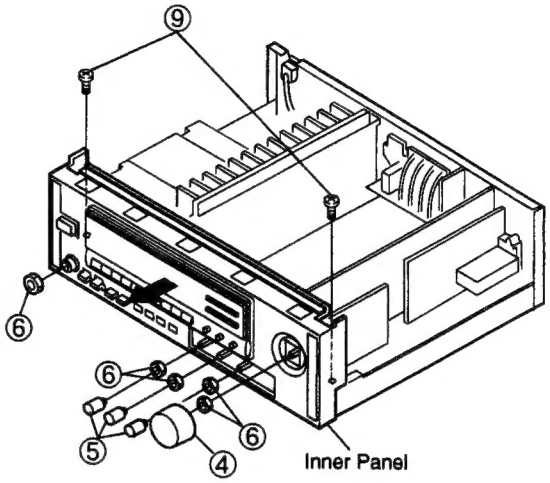
2. Front Panel

Remove 5 screws ③.



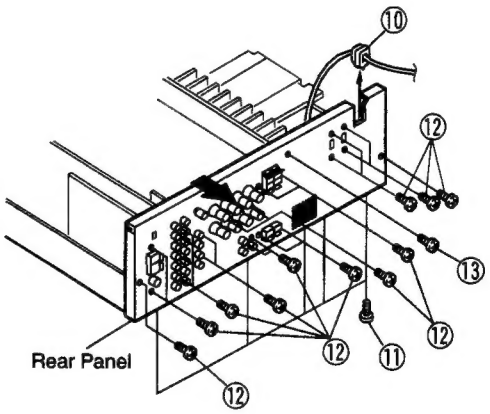
3. Inner Panel

(1) Pull out Volume knob ④ and 3 round knobs ⑤ .
(2) Remove 5 nuts ⑥ .
(3) Remove 2 screws ⑨ .



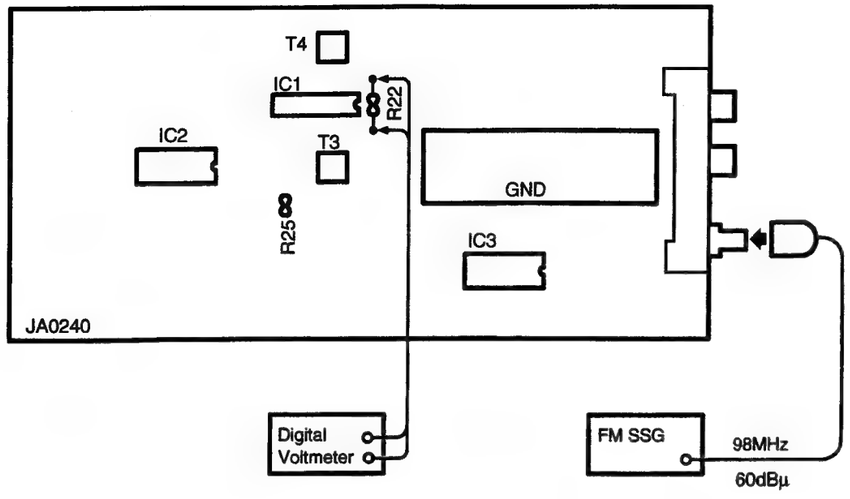
4. Rear Panel

(1) Disconnect cord bush ⑩ .
(2) Remove 5 screws ⑪ , and 22 screws ⑫ .
* Screws ⑫ are tighten.
(3) Remove 1 screw ⑬ .



CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

● FM SECTION



Adjust T4 potential difference across R22 to be within 30mV.

- **Initiating (Memory clearing) Method**
  To clear memory contents of microcomputer and restore to the initial state, take the following steps;

1. Press power switch, turn off power of the unit, and set to standby mode.
2. Pull out power cord from wall outlet temporally.
3. Insert power cord into outlet while simultaneously pressing two keys of VIDEO SELECT and TUNER.
4. Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 through 3.

Note:
When in the Standby mode, the unit is in the Power OFF state when turn Power SW ON with remote control.

● AUDIO SECTION

Idling Current (JA0241)
Required measurement equipment: DC Voltmeter

Arrangement

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

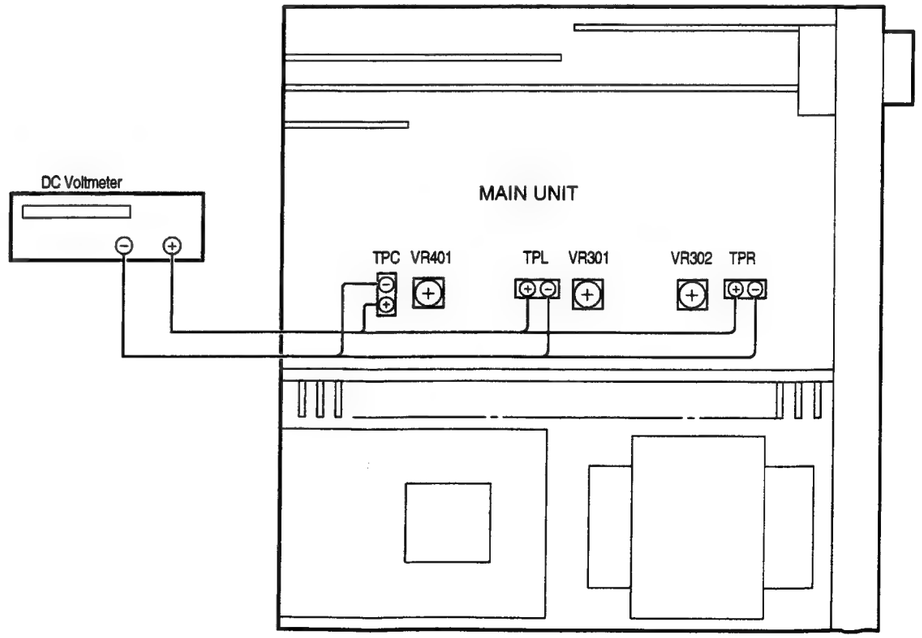
(2) Presetting

● POWER (Power source switch)	→	ON
● MODE (Mode button)	→	STEREO
● FUNCTION (Function button)	→	CD
● VOLUME (Volume control)	→	0: fully counterclockwise (◯ min.)
● BASS, TREBLE (Tone control)	→	0: (Controls to center)
● SPEAKERS (Speaker terminal)	→	No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

(1) Remove top cover and set VR401, VR301 and VR302 of JA0241 (Main Unit) at counterclockwise fully.
(2) Connect DC Voltmeter to test points (Lch TPL, Rch TPR, CENTER ch TPC).
(3) Connect power cord to AC Line, and turn power switch "ON".
(4) Allow 15 minutes, and turn VR301, VR302 and VR401 clockwise (◯) and adjust the TEST POINTS voltage to 1.5 mV ±0.5 mV DC.
(5) After 2 minutes from preset, turn VR301, VR302 and VR401 to set the voltage to 3 mV ±0.5mV DC.

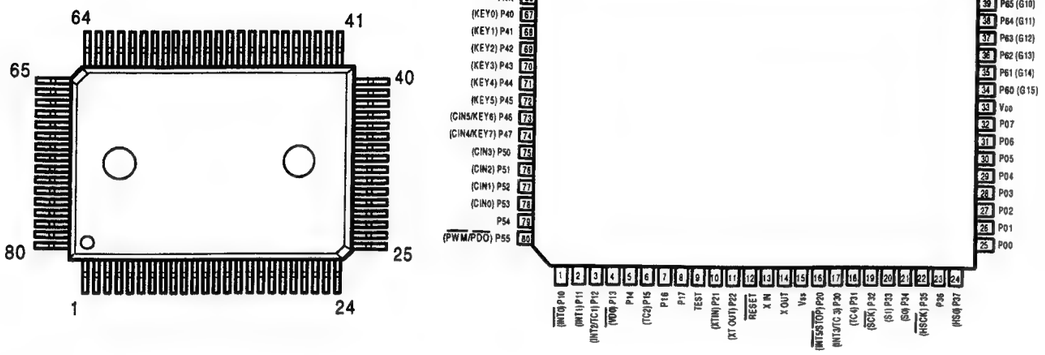
JA0241 Main Unit (Component Side)



SEMICONDUCTORS

● IC's

TMP87CM71F-6668 (IC701)



TMP87CM71F-6668 Terminal Function

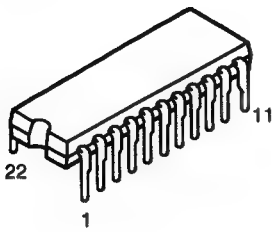
Pin No.	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	STOP	I	—	Eu	Lv	Z	—	Detect power stop ("L" at power stop)
2	PROTECTION	I	—	Eu	E&L	Z	—	Protection input ("H" at protection)
3	EXP. DATA	O	C	—	—	Z	L	Port expand data output
4	EXP. CK	O	C	—	—	Z	L	Port expand clock output
5	EXP. STB	O	C	—	—	Z	L	Port expand strobe output
6	VR. CK	O	C	—	S	Z	L	TC9176 (electron VR) control clock output
7	VR. DATA	O	C	—	S	Z	L	TC9176 (electron VR) control data output
8	VR. STB	O	C	—	—	Z	L	TC9176 (electron VR) control strobe output
9	TEST	I	—	GND	—	—	—	Connect to ground.
10	TUNED	I	—	Eu	Lv	Z	—	"L" at stereo receive
11		O	—	—	—	Z	L	Fixed output on "L"
12	RESET	I	—	Eu	Lv	Z	—	Reset input
13	X IN	I	—	—	—	—	—	Oscillator circuit (4MHz)
14	X OUT	O	—	—	—	—	—	Oscillator circuit (4MHz)
15	GND	I	—	GND	—	—	—	Ground
16	RDS START	I	—	Eu	Ed	Z	—	RDS data, Start signal input (LC704)*
17	REMOCON	I	—	Eu	E&L	Z	—	Remote control signal input
18	STEREO	I	—	Eu	—	Z	L	"L" at TUNER stereo receive
19	RDS. CK	I	—	Eu	S	Z	—	RDS clock input (LC7074)
20	RDS. DATA	I	—	Eu	S	Z	—	RDS data input (LC7074)*
21	RDS. RESET	O	N	Eu	—	Z	L	RDS reset signal output (LC7074)*
22	PLL. CK	O	N	Eu	—	Z	L	LM7001 control clock output
23	PLL. STB	O	N	Eu	—	Z	L	LM7001 control strobe output
24	PLL. DATA	O	N	Eu	—	Z	L	LM7001 control data output
25	FUNC. DATA	O	C	—	—	Z	L	LC7822 (Function IC) control data output
26	FUNC. CK	O	C	—	—	Z	L	LC7822 (Function IC) control clock output
27	FUNC. STB	O	C	—	—	Z	L	LC7822 (Function IC) control strobe output
28	ST/MONO	O	C	—	—	Z	L	TUNER STEREO/MONO control output ("L" at STEREO)
29	POWER OFF	O	C	—	---	Z	L	"L" at ON
30	VOL. DOWN	O	C	—	—	Z	L	Electrically-drive volume control output (BA6208S)

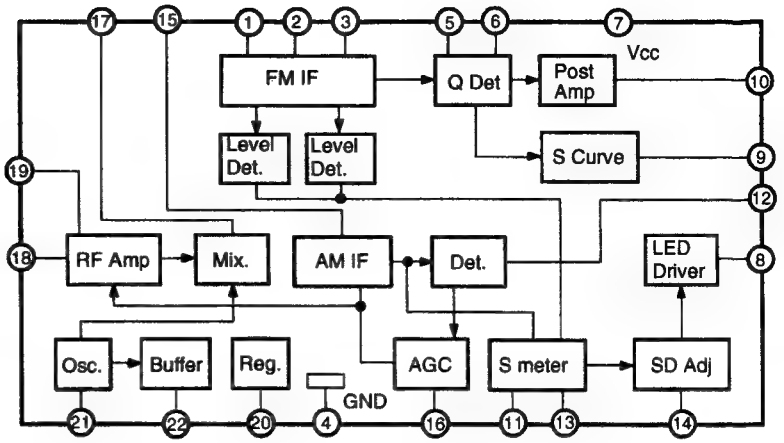
* port is fixed "L" at RDS non-selection mode.

Pin No.	Symbol	I/O	Type	Op	Det	Res	Init	Function
31	VOL. UP	O	C	—	—	Z	L	Electrically-driven volume control output. (BA6208S)
32	SP-FRONT	O	C	—	—	Z	L	Front spesker relay control output.
33	VDD	I	—	—	—	—	—	Connect to +5V.
34	LED. PRO	O	P	Id	—	Z	H	DOLBY PROLOIC indecating LED drive output. ("H" at light)
35	LED. STBY	O	P	Id	—	Z	H	Standby indecating LED drive output. ("H" at light)
36	1G	O	P	Id	—	L	L	FLD control output.
37	2G	O	P	Id	—	L	L	FLD control output.
38	3G	O	P	Id	—	L	H	FLD control output.
39	4G	O	P	Id	—	L	H	FLD control output.
40	5G	O	P	Id	—	L	L	FLD control output.
41	6G	O	P	Id	—	L	L	FLD control output.
42	7G	O	P	Id	—	L	H	FLD control output.
43	8G	O	P	Id	—	L	L	FLD control output.
44	9G	O	P	Id	—	L	L	FLD control output.
45	10G	O	P	Id	—	L	L	FLD control output.
46	11G	O	P	Id	—	L	H	FLD control output.
47	12G	O	P	Id	—	L	L	FLD control output.
48	13G	O	P	Id	—	L	H	FLD control output.
49	14G	O	P	Id	—	L	H	FLD control output.
50	P (a)	O	P	Id	—	L	H	FLD control output.
51	P (b)	O	P	Id	—	L	H	FLD control output.
52	P (c)	O	P	Id	—	L	H	FLD control output.
53	P (d)	O	P	Id	—	L	H	FLD control output.
54	P (e)	O	P	Id	—	L	L	FLD control output.
55	P (f)	O	P	Id	—	L	L	FLD control output.
56	P (g)	O	P	Id	—	L	L	FLD control output.
57	P (h)	O	P	Id	—	L	L	FLD control output.
58	P (j)	O	P	Id	—	L	L	FLD control output.
59	P (k)	O	P	Id	—	L	L	FLD control output.
60	P (m)	O	P	Id	—	L	L	FLD control output.
61	P (n)	O	P	Id	—	L	L	FLD control output.
62	P (p)	O	P	Id	—	L	L	FLD control output.
63	P (q)	O	P	Id	—	L	L	FLD control output.
64	P (r)	O	P	Id	—	L	L	FLD control output.
65	P (s)	O	P	Id	—	L	L	FLD control output.
66	VKK	I	—	—	—	—	—	Connect to VKK.
67	DD.CK	O	N	Eu	—	Z	H	NJU9701G (Delay time) control clock output.
68	DD. REQ	O	N	Eu	—	Z	H	NJU9701G (Delay time) control request output.
69	DD.DATA	O	N	Eu	—	Z	H	NJU9701G (Delay time) control data output.
*70	MODE2	I	N	Eu	—	Z		Select occurring or no RDS function. ("H" at occurring RDS function)*
71	VIDEO A	O	N	Eu	—	Z	H	BU4066 (Video shift) control output. ("L" at selecting)
72	VIDEO B	O	N	Eu	—	Z	H	BU4066 (Video shift) control output. ("L" at selecting)
73	KEY 5	I	—	Eu	Lv	Z	—	Button input 5.
74	KEY 4	I	—	Eu	Lv	Z	—	Button input 4.
75	KEY 3	I	—	Eu	Lv	Z	—	Button input 3.
76	KEY 2	I	—	Eu	Lv	Z	—	Button input 2.
77	KEY 1	I	—	Eu	Lv	Z	—	Button input 1.
78	MODE 1	I	—	Eu	Lv	Z	—	Model version change input.
79	TU MUTE	O	N	Eu	—	Z	L	Tuner muting output. ("L" at muting)
80		O	N	Eu	—	Z	H	Fixed output on "H".

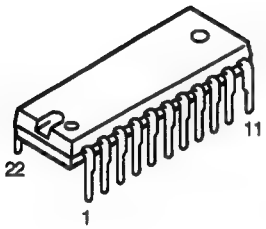
* port is fixed "L" at RDS non-selection mode.

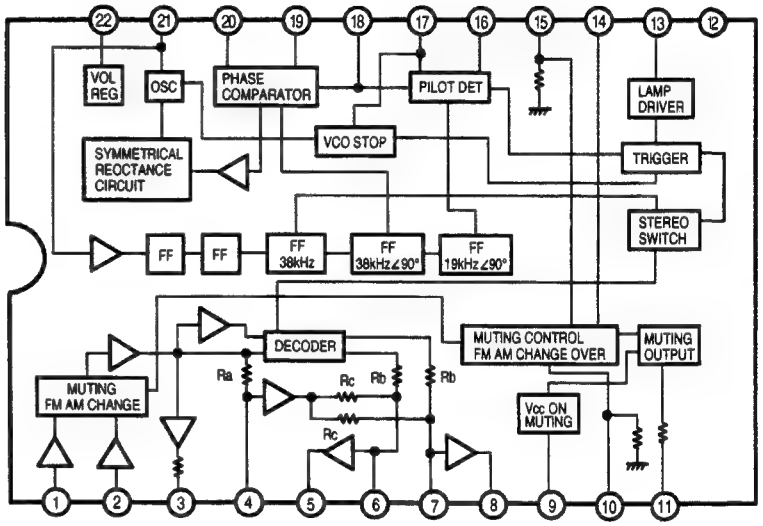
LA1265 (S)
(IC001)



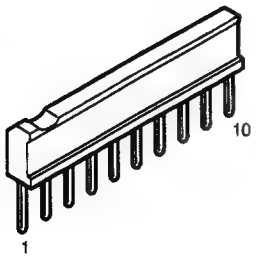


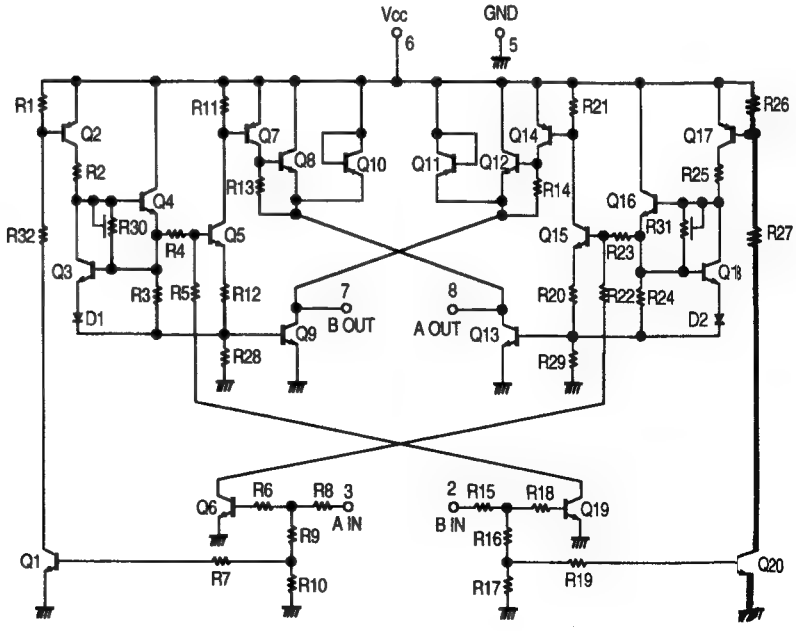
LA3401
(IC002)



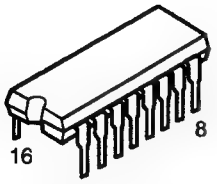


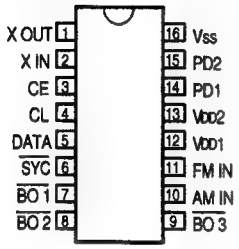
BA6208S
(IC265)

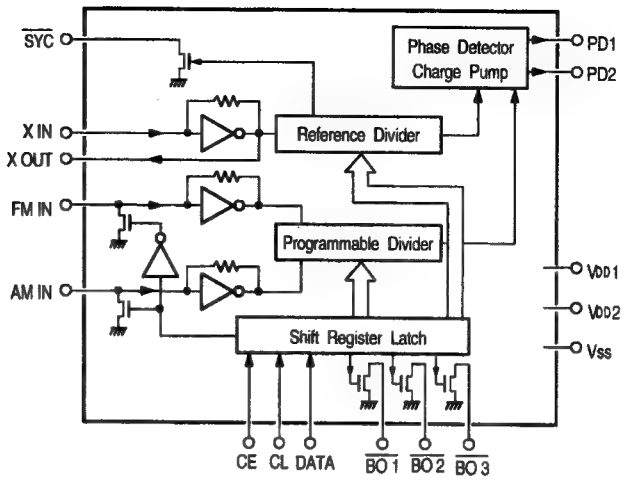




LM7001 (IC003)



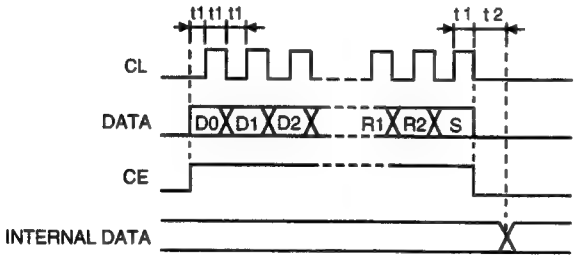




Terminal Description

$\overline{SYC}$	: Clock for controller (400 kHz).
XIN, XOUT	: X'tal OSC (7.2 MHz).
FMIN, AMIN	: Station oscillation signal input.
CE, CL, DATA	: Data input.
$\overline{BO1}$, $\overline{BO2}$, $\overline{BO3}$	: Band data output. $\overline{BO1}$ is feasible for time base output (8 Hz).
VDD1, VDD2, Vss	: Power supply. (VDD2 is for back-up).
PD1, PD2	: Charge pump output.

Data Input



t1 > 1.5 µs
t2 < 1.5 µs (X'tal at 7.2MHz)

——— Input from D0.

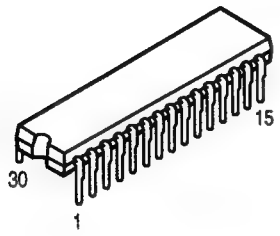
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	T0	T1	B0	B1	B2	TB	R0	R1	R2

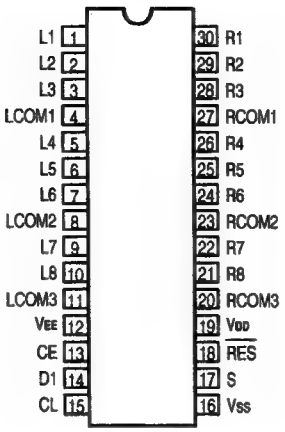
(1) D0(LSB)~D13(MSB) : Frequency dividend data
For FMIN, use D0~D13; for AMIN, use D4~D13.

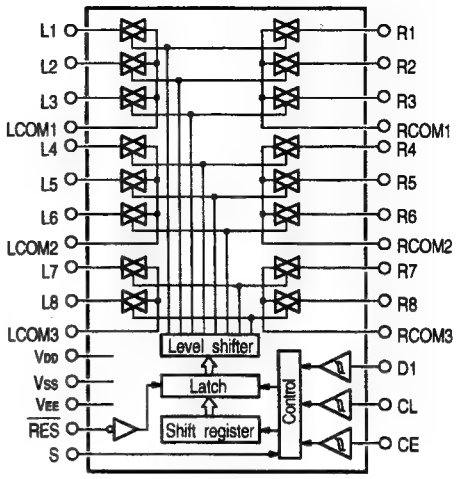
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	
1	0	1	0	0	0	0	0	0	1	0	1	1	1	→ FMIN Frequency dividend nnumber = 14853
LSB													MSB	
x	x	x	x	0	0	0	0	0	1	0	1	1	1	→ FMIN Frequency dividend nnumber = 928
				LSB									MSB	

(2) T0, T1 : For test of LSI (0,0)

LC78212 (IC102)



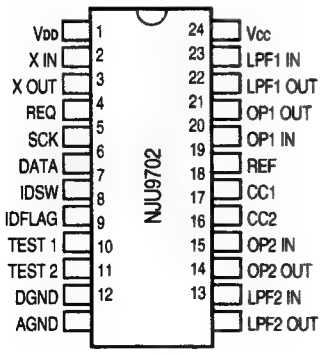


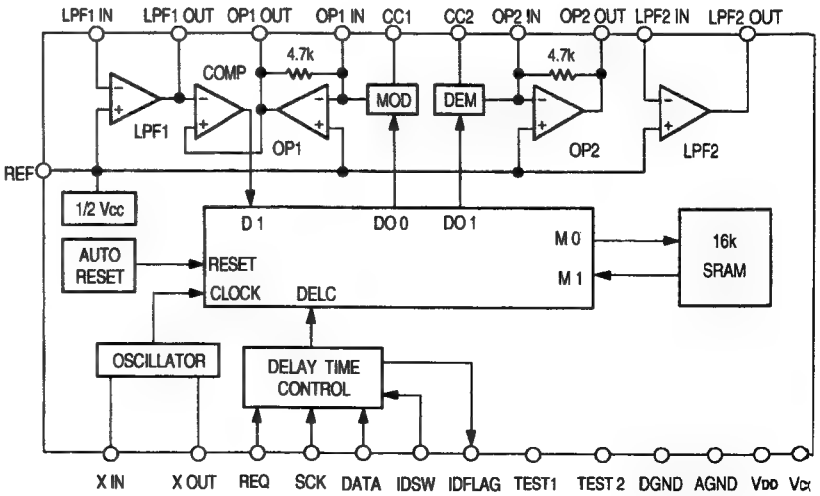


LC78212 Terminal Function

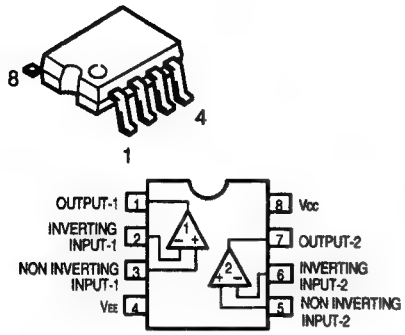
Name of Terminal	I/O	Equivalent Internal Circuit	Function of Terminal
VDD, Vss VEE			Power terminal.
L1~L8, R1~R8 LCOM1~LCOM4, BCOM1~BCOM4		Refer to block diagram	In/Out terminal of analog switdch.
CL, DI, CE	I		Serial data input terminal (schmidt buffer). CL=Clock input terminal. DI=Data input terminal/ CE=Chip enable terminal.
S	I		Selection terminal for using of two. Address will be shifted as per below table when switching S terminal to L or H. Name of Item / S Terminal / Address (A0 A1 A2 A3) LC78212 / L / 0 1 0 1 LC78212 / H / 1 1 0 1
$\overline{RES}$	I		Reset terminal. Condition of analog switch is not fixed at the time of turning on the power. When shift this terminal to L, all analog switches become OFF.

NJU9702 (IC202)

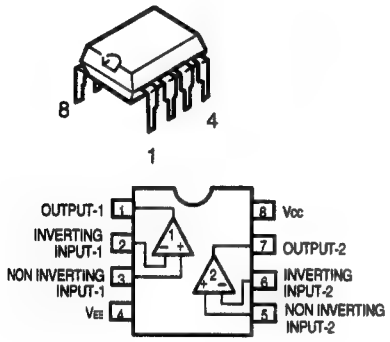




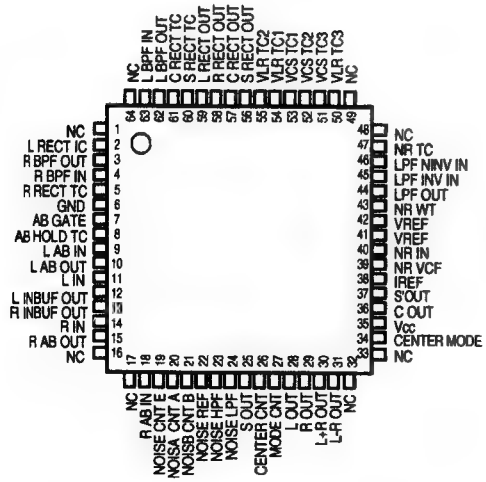
BA4558F (IC101, 103)



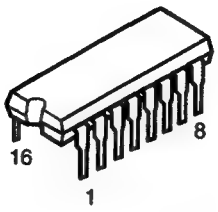
BA4558 (IC261, 263)
BA15218 (IC451)

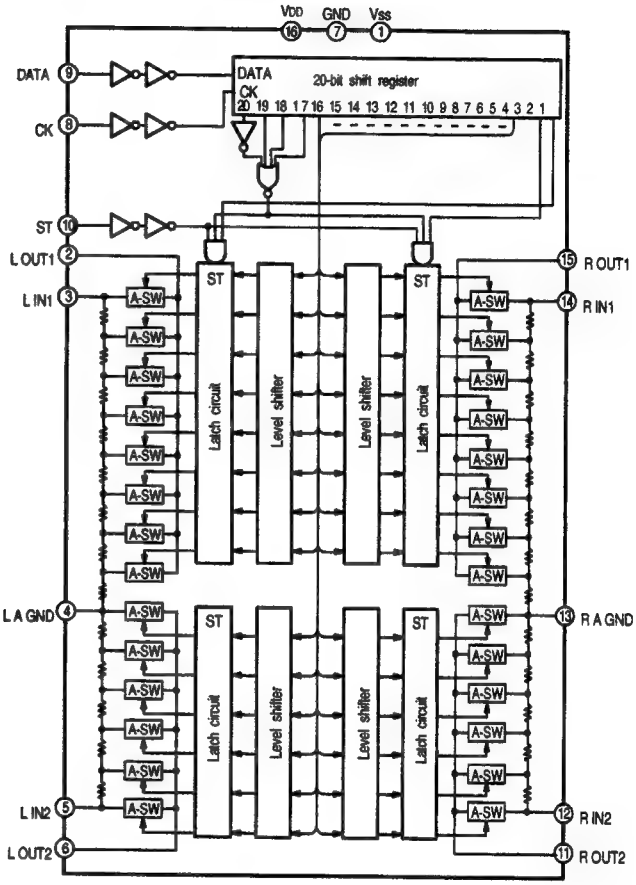


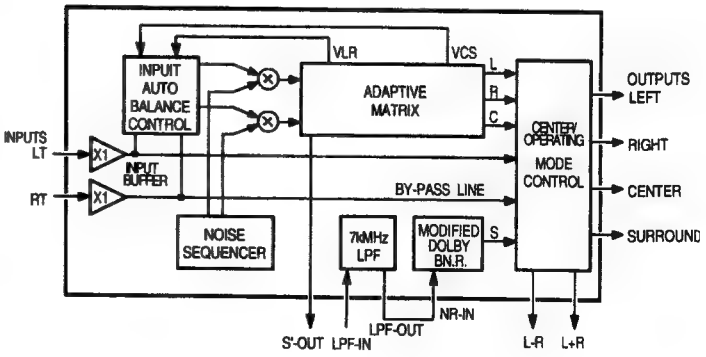
NJM2177AF (IC201)



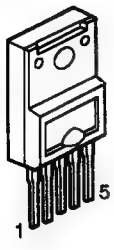
TC9176P (IC266)





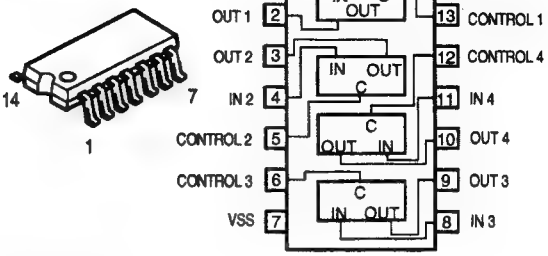


SI-18752
(IC571,572)

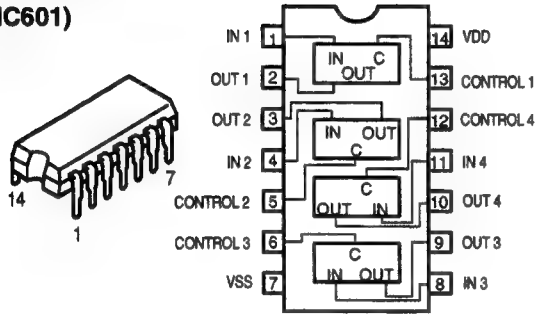


1. +IN
2. −IN
3. VEE
4. Output
5. +Vcc

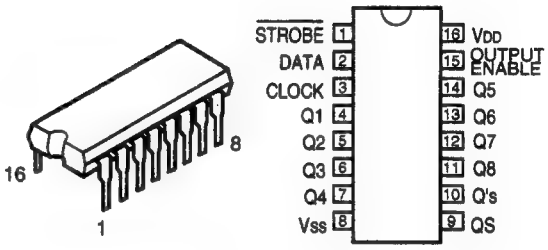
BU4066BCF
(IC203, 205)



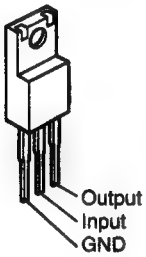
BU4066BC
(IC601)



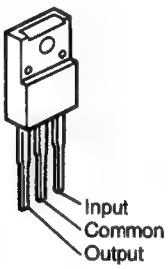
BU4094BC
(IC913, 914)



NJM7912FA
(IC574)

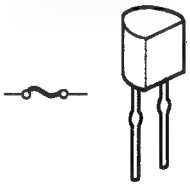


KIA7806PI
(IC575)



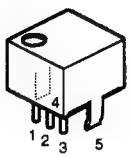
● IC PROTECTOR

ICP-N20 (PR505, 506)

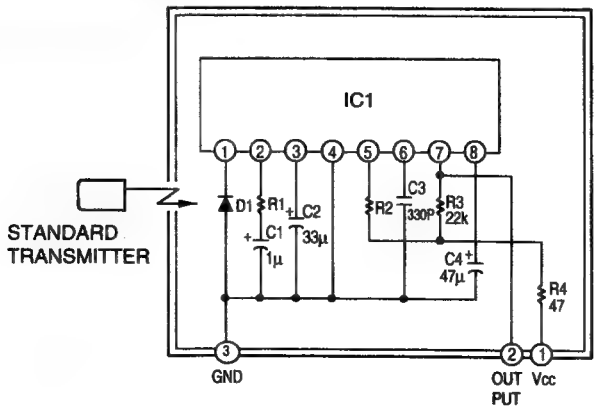


● OTHER

SBX1910 Remote Control Receiver)



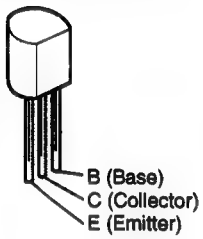
1. Vcc
2. Output
3. GND
4. Case Fin
5. Case Fin



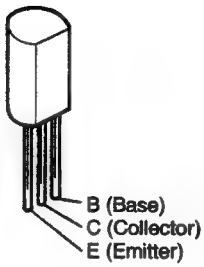
IC1 : CX20106A Chip
D1 : PIN Photo Diode Chip
C1,C2,C4 : Aluminum Electrolytic Capacitor
C3 : SL Characteristic ±5%
R1 : Gain control resistor
R2 : for control resistor (Using±1%)
R (Other than above items)
: ±5%

● TRANSISTORS

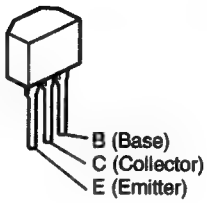
2SA970 (BL)
2SA988 (E/F)
2SA1015 (GR)
2SC1815 (Y), (GR)
2SC1841 (E/F)
2SC2058 (Q)
2SC2878 (A/B)
2SC1841 (E/F)



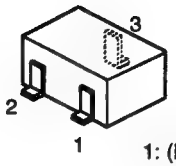
2SB647A (C)
2SD667A (C)



2SC2458

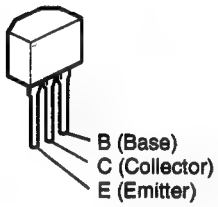


2SA1037K (S/R)
2SC2412K (S)

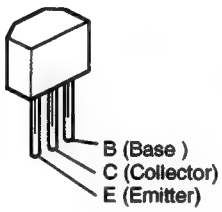


1: (Emitter)
2: (Base)
3: (Collector)

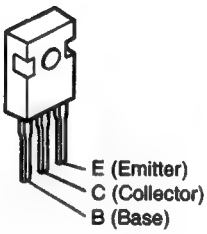
DTA114ES
DTC114TS
DTC114ES
DTC144TS
DTC323TS



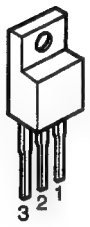
2SA933S (S)
2SC1740 (S)



2SA1633
2SC4278

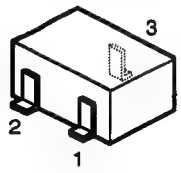


NJM7812FA (S)



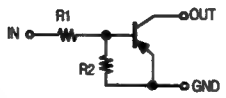
1. OUT
2. GND
3. IN

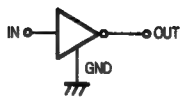
DTA114EKA
DTC143EKA
DTC144EKA



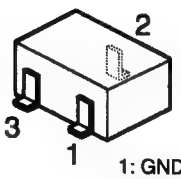
1: GND/Emitter
2: In/Base
3: Out/Collector

DTA114EKA



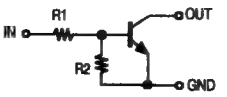


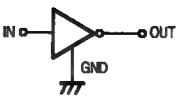
DTC143EK
DTC144EK



1: GND/Emitter
2: Out/Collector
3: In/Base

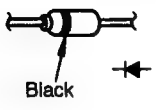
DTC143EKA
DTC144EKA



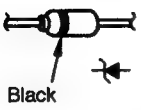


● DIODES (included LED)

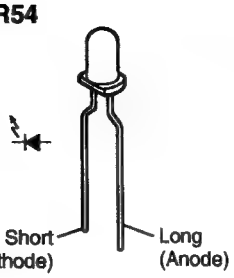
1S2471



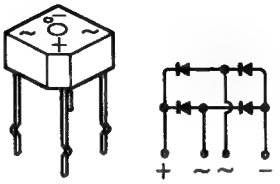
HZ9A3
HZS6C



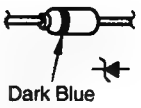
SLR54



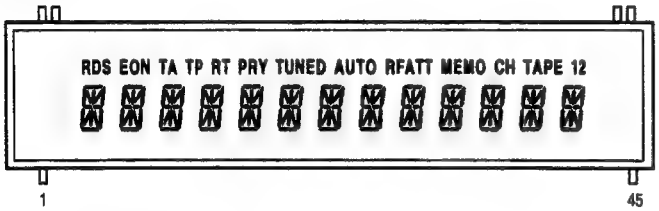
S4VB20

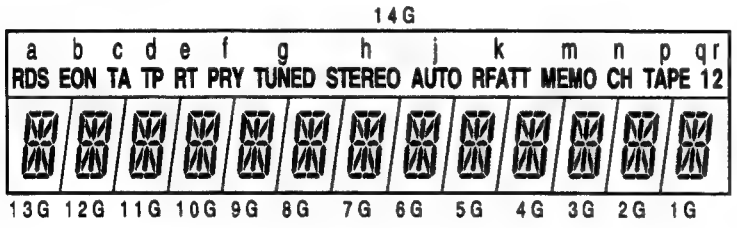


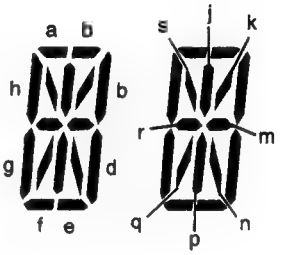
MTZJ3.3A



● FLD
(FL701)







PIN CONNECTION

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Connection	F1	F1	NP	NP	NC	NC	NC	NC	NC	NC	NC	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	14G	13G	12G

Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Connection	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2

Note
1) F1, F2 ---------- Filament
2) NP---------- No pin
3) NC---------- No connection
4) DL ---------- Datum line
5) 1G~14G -------- Gird

ANODE CONNECTION

	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	**RDS**	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
P2	**EON**	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
P3	**TA**	b	b	b	b	b	b	b	b	b	b	b	b	b
P4	**TP**	c	c	c	c	c	c	c	c	c	c	c	c	c
P5	**RT**	d2	d2	d2	d2	d2	d2	d2	d2	d2	d2	d2	d2	d2
P6	**PTY**	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1
P7	**TUNED**	e	e	e	e	e	e	e	e	e	e	e	e	e
P8	**STEREO**	f	f	f	f	f	f	f	f	f	f	f	f	f
P9	**AUTO**	j	j	j	j	j	j	j	j	j	j	j	j	j
P10	**RFATT**	k	k	k	k	k	k	k	k	k	k	k	k	k
P11	**MEMO**	m	m	m	m	m	m	m	m	m	m	m	m	m
P12	**CH**	n	n	n	n	n	n	n	n	n	n	n	n	n
P13	**TAPE**	p	p	p	p	p	p	p	p	p	p	p	p	p
P14	**1**	r	r	r	r	r	r	r	r	r	r	r	r	r
P15	**2**	g	g	g	g	g	g	g	g	g	g	g	g	g
P16	**—**	h	h	h	h	h	h	h	h	h	h	h	h	h

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol ⚠ [redacted] have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon	2B : 1/8W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : ±5%	NB : Non-burning type
RW : Winding	3A : 1W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
- 2-digit effective number.
- Indicates number of zeros after effective number.

• Units: ohm

1 R 2 ⇒ 1.2 ohm
- 2-digit effective number, decimal point indicated by R.
- 1-digit effective number.

• Units: ohm

● Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high frequency
CC : Ceramic	1H : 50V	Z : +80% −20%	U : UL part
CP : Oil	2A : 100V	P : +100% −0%	C : CSA part
CM : Mica	2B : 125V	C : ±0.25pF	W : UL-CSA type
CF : Metallized	2C : 160V	D : ±0.5pF	F : Lead wire forming
CH : Metallized	2D : 200V	= : Others	
	2E : 250V		
	2H : 500V		
	2J : 630V		

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200μF
- 2-digit effective number.
- Indicates number of zeros after effective number.

• Units: μF.

2 R 2 ⇒ 2.2μF
- 2-digit effective number, decimal point indicated by R.
- 1-digit effective number.

• Units: μF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022μF
- (More than 2)—Indicates number of zeros after effective number.
- 2-digit effective number.

• Units: μF.

2 2 1 ⇒ 220pF
- (0 or 1)—Indicates number of zeros after effective number.
- 2-digit effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

MAIN P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC451	263 0615 902	IC BA15218F	
IC571	263 0855 005	IC SI18752	
IC572	263 0855 005	IC SI18752	
IC573	263 0516 001	IC NJM7812FA	
IC574		IC NJM7912FA	
IC575	9LC P024 12	IC KIA7806PI	
IC601	262 1875 007	IC BU4066BCF	
IC913	9LC K089 01R	IC BU4094BCF	
IC914	9LC K089 01R	IC BU4094BCF	
TR301	271 0094 016	Transistor 2SA970(BL)	
TR302	271 0094 016	Transistor 2SA970(BL)	
TR303	271 0094 016	Transistor 2SA970(BL)	
TR304	271 0094 016	Transistor 2SA970(BL)	
TR305	271 0131 021	Transistor 2SA988(E/F)	
TR306	271 0131 021	Transistor 2SA988(E/F)	
TR307	273 0235 020	Transistor 2SC1841(E/F)	
TR308	273 0235 020	Transistor 2SC1841(E/F)	
TR309	273 0235 020	Transistor 2SC1841(E/F)	
TR310	273 0235 020	Transistor 2SC1841(E/F)	
TR311	273 0235 020	Transistor 2SC1841(E/F)	
TR312	273 0235 020	Transistor 2SC1841(E/F)	
TR313	273 0325 008	Transistor 2SC1815(GR)	
TR314	273 0325 008	Transistor 2SC1815(GR)	
TR315	274 0060 007	Transistor 2SD667A(C)	
TR316	274 0060 007	Transistor 2SD667A(C)	
TR317	272 0053 005	Transistor 2SB647A(C)	
TR318	272 0053 005	Transistor 2SB647A(C)	
TR319	273 0430 003	Transistor 2SC4278(E/F)	
TR320	273 0430 003	Transistor 2SC4278(E/F)	
TR321	271 0276 009	Transistor 2SA1633(E/F)	
TR322	271 0276 009	Transistor 2SA1633(E/F)	
TR323	273 0235 020	Transistor 2SC1841(E/F)	
TR324	273 0235 020	Transistor 2SC1841(E/F)	
TR325	271 0131 021	Transistor 2SA988(E/F)	
TR351	271 0131 021	Transistor 2SA988(E/F)	
TR352	271 0131 021	Transistor 2SA988(E/F)	
TR353	273 0384 900	Transistor 2SC2412K(Q/R)	
TR354	271 0238 908	Transistor 2SA1037K(Q/R)	
TR355	9L2 3286 25	Transistor 2SB647(C)	
TR401	271 0094 016	Transistor 2SA970(BL)	
TR403	271 0094 016	Transistor 2SA970(BL)	
TR405	271 0131 021	Transistor 2SA988(E/F)	
TR407	273 0235 020	Transistor 2SC1841(E/F)	
TR409	273 0235 020	Transistor 2SC1841(E/F)	
TR411	273 0235 020	Transistor 2SC1841(E/F)	
TR413	273 0325 901	Transistor 2SC1815(GR)	

Ref. No.	Part No.	Part Name	Remarks
TR415	274 0060 007	Transistor 2SD667A(C)	
TR417	272 0053 005	Transistor 2SB647(C)	
TR419	273 0430 003	Transistor 2SC4278(E/F)	
TR421	271 0276 009	Transistor 2SA1633(E/F)	
TR423	273 0235 020	Transistor 2SC1841(E/F)	
TR442	UDM D010 434	Transistor DTA114EKA	
TR443	269 0048 904	Transistor DTC143EK	
TR481	273 0384 900	Transistor 2SC2412K(Q/R)	
TR482	273 0384 900	Transistor 2SC2412K(Q/R)	
TR483	273 0384 900	Transistor 2SC2412K(Q/R)	
TR484	273 0384 900	Transistor 2SC2412K(Q/R)	
TR485	273 0384 900	Transistor 2SC2412K(Q/R)	
TR486	273 0384 900	Transistor 2SC2412K(Q/R)	
TR487	271 0238 908	Transistor 2SA1037K(Q/R)	
TR488	269 0054 901	Transistor DTC144EK	
TR531	273 0384 900	Transistor 2SC2412K(Q/R)	
TR551	273 0384 900	Transistor 2SC2412K(Q/R)	
TR601	273 0317 906	Transistor 2SC2458(BL)	
TR602	273 0317 906	Transistor 2SC2458(BL)	
TR603	271 0102 021	Transistor 2SA1015(GR)	
TR604	271 0102 021	Transistor 2SA1015(GR)	
TR651	273 0253 028	Transistor 2SC2878(B)	
TR653	273 0253 028	Transistor 2SC2878(B)	
TR801	269 0048 904	Transistor DTC143EK	
TR802	273 0384 900	Transistor 2SC2412K(Q/R)	
TR803	UDM D010 434	Transistor DTA114EKA	
TR903	UDM D010 434	Transistor DTA114EKA	
TR904	UDM D010 434	Transistor DTA114EKA	
D301	276 0401 905	Diode 1SS133	
D302	276 0401 905	Diode 1SS133	
D303	276 0401 905	Diode 1SS133	
D304	276 0401 905	Diode 1SS133	
D305	276 0401 905	Diode 1SS133	
D306	276 0401 905	Diode 1SS133	
D307	9L2 3312 32M	Diode 1S2471B	
D308	9L2 3312 32M	Diode 1S2471B	
D309	9L2 3312 32M	Diode 1S2471B	
D310	9L2 3312 32M	Diode 1S2471B	
D311	276 0401 905	Diode 1SS133	
D312	276 0401 905	Diode 1SS133	
D351	276 0338 007	Diode S4VB20	
D352	276 0401 905	Diode 1SS133	
D401	276 0401 905	Diode 1SS133	
D403	276 0401 905	Diode 1SS133	
D405	276 0401 905	Diode 1SS133	
D407	9L2 3312 32M	Diode 1S2471B	

Ref. No.	Part No.	Part Name	Remarks
D409	9L2 3312 32M	Diode 1S2471B	
D411	276 0401 905	Diode 1SS133	
D441	276 0401 905	Diode 1SS133	
D481	276 0401 905	Diode 1SS133	
D482	276 0401 905	Diode 1SS133	
D483	276 0401 905	Diode 1SS133	
D484	9L2 2000 03R	Diode SDDC-1SS355	
D571	276 0401 905	Diode 1SS133	
D572	276 0338 007	Diode S4VB20	
D573	276 0401 905	Diode 1SS133	
D616	276 0401 905	Diode 1SS133	
D617	276 0401 905	Diode 1SS133	
D801	9L2 3980 64	Diode IN4001-U01	
D802	276 0401 905	Diode 1SS133	
D803	276 0401 905	Diode 1SS133	
D804	276 0401 905	Diode 1SS133	
D905	276 0401 905	Diode 1SS133	
D912	276 0401 905	Diode 1SS133	
ZD301	DB8 00-0 112	Zener diode HZS6C2L	
ZD302	DB8 00-0 112	Zener diode HZS6C2L	
ZD351	9W2 3392 23	Zener diode HZS27-3L	
ZD401	DB8 00-0 112	Zener diode HZS6C2L	
ZD551	DB8 00-0 112	Zener diode HZS6C2L	
ZD571	DB8 00-0 112	Zener diode HZS6C2L	
ZD801	276 0634 905	Zener diode MTZJ3.3A	
TH531	9LC J001 51	PTH9M04B222TS2F333	
RESISTORS GROUP			
R301		Chip 10kohm	RNC103J1-16
R302		Chip 10kohm	RNC103J1-16
R303		Chip 470ohm	RNC471J1-16
R304		Chip 470ohm	RNC471J1-16
R305		Carbon film 12kohm	RD14S1J123JQ
R306		Carbon film 12kohm	RD14S1J123JQ
R307		Chip 30ohm	RMC73M-1F300JR
R308		Chip 30ohm	RMC73M-1F300JR
R309		Carbon film 10kohm	RD14S1J103JQ
R310		Carbon film 10kohm	RD14S1J103JQ
R311		Chip 47ohm	RNC470J1-16
R312		Chip 47ohm	RNC470J1-16
R313		Chip 430ohm	RMC73M-1F431JR
R314		Chip 430ohm	RMC73M-1F431JR

Ref. No.	Part No.	Part Name	Remarks
R315	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R316	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R317	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R318	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R319	241 2315 967	Carbon film 68ohm 1/4W (NB)	RD45B2E680JNB-FR
R320	241 2315 967	Carbon film 68ohm 1/4W (NB)	RD45B2E680JNB-FR
R321	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R322	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R323	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R324	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R325		Chip 5.6kohm	RNC562J1-16
R326		Chip 5.6kohm	RNC562J1-16
R327		Chip 75kohm	RMC73M-1F753JR
R328		Chip 75kohm	RMC73M-1F753JR
R329		Carbon 9.1kohm	RDL-912J1-16LQ
R330		Carbon 9.1kohm	RDL-912J1-16LQ
R331	241 2378 920	Carbon 220ohm	RD14S2E221J(NB)
R332	241 2378 920	Carbon 220ohm	RD14S2E221J(NB)
R333	244 2043 982	0.22ohm 1W	RE-R22J0001N
R334	244 2043 982	0.22ohm 1W	RE-R22J0001N
R335	244 2043 982	0.22ohm 1W	RE-R22J0001N
R336	244 2043 982	0.22ohm 1W	RE-R22J0001N
R337	244 2043 982	0.22ohm 1W	RE-R22J0001N
R338	244 2043 982	0.22ohm 1W	RE-R22J0001N
R339	244 2043 982	0.22ohm 1W	RE-R22J0001N
R340	244 2043 982	0.22ohm 1W	RE-R22J0001N
R341		Chip 20kohm	RMC73M-1F203JR
R342		Chip 20kohm	RMC73M-1F203JR
R343		Chip 20kohm	RMC73M-1F203JR
R344		Chip 20kohm	RMC73M-1F203JR
R345		Chip 10kohm	RNC103J1-16
R346		Chip 10kohm	RNC103J1-16
R347		Chip 270kohm	RNC274J1-16
R348		Chip 270kohm	RNC274J1-16
R349	241 2407 082	Carbon film 2.2ohm	RD14S1J2R2J
R350	241 2407 082	Carbon film 2.2ohm	RD14S1J2R2J
R351		Chip 22kohm	RNC223J1-16
R352		Chip 22kohm	RNC223J1-16
R353		Chip 20kohm	RMC73M-1F203JR
R354		Chip 20kohm	RMC73M-1F203JR
R358		Chip 10kohm	RNC103J1-16
R359		Chip 10kohm	RNC103J1-16
R361	244 2043 050	Metal oxide 470ohm 1W	RS08B3A471JS
R362	244 2043 050	Metal oxide 470ohm 1W	RS08B3A471JS
R371	244 2043 982	0.22ohm 1W	RE-R22J0001N
R372	244 2043 982	0.22ohm 1W	RE-R22J0001N
R373	244 2043 982	0.22ohm 1W	RE-R22J0001N
R374	244 2043 982	0.22ohm 1W	RE-R22J0001N
R375		Chip 910ohm	RMZ73M-1F911JR
R376		Chip 560kohm	RNC564J1-16
R377		Chip 22kohm	RNC223J1-16
R378		Chip 470ohm	RNC471J1-16

Ref. No.	Part No.	Part Name	Remarks
R379		Chip 3.6kohm	RMC73M-1F362JR
R380		Chip 470ohm	RNC471J1-16
R381		Chip 560kohm	RNC564J1-16
R383	241 2400 063	Carbon 7.5kohm	RDL-752J1-16LQ
R384	241 2315 967	Metal film 68ohm 1/4W	RN45B2E680JB-FR
R397	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R398	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R401		Chip 10kohm	RNC103J1-16
R402		Chip 1.5kohm	RNC152J1-16
R403		Carbon film 12kohm	RD14S1J123JQ
R404		Chip 100ohm	RNC101J1-16
R405		Carbon film 10kohm	RD14S1J103JQ
R406		Chip 47ohm	RNC470J1-16
R407		Chip 430ohm	RMC73M-1F431JR
R408	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R409	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)
R410	241 2315 967	Metal film 68ohm 1/4W	RN45B2E680JNB-FR
R411	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R412	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)
R413		Chip 6kohm	RNC562J1-16
R414		Chip 75kohm	RMC73M-1F753JR
R415		Carbon 9.1kohm	RDL-912J1-16LQ
R416	241 2378 920	Carbon 220ohm	RD14S2E221J(NB)
R417	244 2043 982	0.22ohm 1W	RE-R22J0001N
R418	244 2043 982	0.22ohm 1W	RE-R22J0001N
R419	244 2043 982	0.22ohm 1W	RE-R22J0001N
R420	244 2043 982	0.22ohm 1W	RE-R22J0001N
R421		Chip 20kohm	RMC73M-1F203JR
R422		Chip 20kohm	RMC73M-1F203JR
R424		Chip 270kohm	RNC274J1-16
R425	241 2393 002	Carbob 4.7ohm	RD14S1J4R7J
R426		Chip 2.2ohm	RNC223J1-16
R427		Chip 20kohm	RMC73M-1F203JR
R428		Chip 10kohm	RNC103J1-16
R429		Chip 10kohm	RNC103J1-16
R431	244 2051 987	4.7ohm 1W	RE-4R7J0001N
R433		4.7ohm 1W	RE-4R7J0001N
R434		4.7ohm 1W	RE-4R7J0001N
R437		Chip 10kohm	RNC103J1-16
R438		Chip 13kohm	RMC73M-1F133JR
R442	241 0185 005	Carbon film 1kohm 1/2W (NB)	RD14S2H102JB
R443		Chip 2.2kohm	RNC222J1-16
R445		Chip 2.2kohm	RNC222J1-16
R451		Chip 470ohm	RNC471J1-16
R452		Chip 470ohm	RNC471J1-16
R453		Chip 62kohm	RMC73M-1F623JR
R454		Chip 62kohm	RMC73M-1F623JR
R457		Chip 62kohm	RMC73M-1F623JR
R458		Chip 62kohm	RMC73M-1F623JR
R463		Chip 1.2kohm	RNC122J1-16
R464		Chip 1.2kohm	RNC122J1-16

Ref. No.	Part No.	Part Name	Remarks
R465		Chip 220ohm	RNC221J1-16
R466		Chip 220ohm	RNC221J1-16
R467		Chip 11kohm	RMC73M-1F113JR
R468		Chip 11kohm	RMC73M-1F113JR
R469		Chip 1.8kohm	RNC182J1-16
R470		Chip 1.8kohm	RNC182J1-16
R471		Chip 6.8ohm	RNC6R8J1-16
R472		Chip 6.8ohm	RNC6R8J1-16
R473		Chip 200ohm	RMC73M-1F201JR
R474		Chip 200ohm	RMC73M-1F201JR
R475		Chip 39ohm	RNC390J1-16
R476		Chip 39ohm	RNC390J1-16
R477		Chip 100ohm	RNC101J1-16
R478		Chip 100ohm	RNC101J1-16
R481	241 2321 087	Carbon 120ohm	RD14S2E121J(NB)
R482	241 2321 087	Carbon 120ohm	RD14S2E121J(NB)
R484		Chip 10kohm	RNC103J1-16
R485		Chip 4.7kohm	RNC4R7J1-16
R486		Chip 10kohm	RNC103J1-16
R488		Chip 10kohm	RNC103J1-16
R489		Chip 47ohm	RNC470J1-16
R490		Chip 4.7kohm	RNC472J1-16
R491		Chip 1kohm	RNC102J1-16
R492		Chip 10kohm	RNC103J1-16
R493		Chip 47kohm	RNC473J1-16
R494		Chip 47kohm	RNC473J1-16
R496		Chip 4.7kohm	RNC472J1-16
R497		Chip 4.7kohm	RNC472J1-16
R498		Chip 4.7kohm	RNC472J1-16
R499		Chip 47ohm	RNC470J1-16
R571		Chip 22kohm	RNC223J1-16
R572		Chip 22kohm	RNC223J1-16
R573		Chip 1.2kohm	RNC122J1-16
R574		Chip 1.2kohm	RNC122J1-16
R575	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R576	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R577	241 2393 002	Carbon film4.7ohm	RD14S1J4R7J
R578	241 2393 002	Carbon film4.7ohm	RD14S1J4R7J
R579	244 2051 987	4.7ohm 1W	RE-4R7J0001N
R580	244 2051 987	4.7ohm 1W	RE-4R7J0001N
R581		Chip 20kohm	RMC73M-1F203JR
R582		Chip 20kohm	RMC73M-1F203JR
R583	241 2321 087	Carbon 120ohm	RD14S2E121J(NB)
R584		Chip 390kohm	RNC394J1-16
R585		Chip 10kohm	RNC103J1-16
R586		Chip 20kohm	RNC73M-1F203JR
R587		Chip 4.7kohm	RNC472J1-16
R601	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ
R603	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ
R604	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ

Ref. No.	Part No.	Part Name	Remarks
R608	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ
R611	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ
R612	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ
R613	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R614	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R615	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ
R616	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ
R617	241 2398 007	Carbon 620ohm	RDL-621J1-16LQ
R618	241 2398 007	Carbon 620ohm	RDL-621J1-16LQ
R619	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ
R620	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ
R621	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ
R622	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ
R623	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R624	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R625	241 2400 995	Carbon film 10kohm	RDL-103J1-16LQ
R626	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R677		Chip 2.2kohm	RNC222J1-16
R680		Chip 15kohm	RNC153J1-16
R681		Chip 15kohm	RNC153J1-16
R682		Chip 15kohm	RNC153J1-16
R683		Chip 910ohm	RMC73M-1F911JR
R684		Chip 15kohm	RNC153J1-16
R685		Chip 910ohm	RMC73M-1F911JR
R686		Chip 2.2kohm	RNC222J1-16
R739		Chip 2.2kohm	RNC222J1-16
R740		Chip 2.2kohm	RNC222J1-16
R747		Chip 2.2kohm	RNC222J1-16
R748		Chip 6.8kohm	RNC682J1-16
R749		Chip 6.8kohm	RNC682J1-16
R802		Chip 10kohm	RNC103J1-16
R803		Chip 1kohm	RNC102J1-16
R804		Chip 1kohm	RNC102J1-16
R805		Chip 1kohm	RNC102J1-16
R806		Chip 4.7kohm	RNC472J1-16
R807		Chip 4.7kohm	RNC472J1-16
R808		Chip 220kohm	RNC224J1-16
R809		Chip 10kohm	RNC103J1-16
R810		Chip 10kohm	RNC103J1-16
VR301	9LA W001 61R	Semi fixed resistor 5 kohm	RT6-3H502T
VR302	9LA W001 61R	Semi fixed resistor 5 kohm	RT6-3H502T
VR401	9LA W001 61R	Semi fixed resistor 5 kohm	RT6-3H502T
VR451	9LA Y001 81	Variable resistor 100 kohm	BALANCE
VR452	9LA Y001 82	Variable resistor 30 kohm	BASS
VR453	9LA Y001 83	Variable resistor 10 kohm	TREBLE

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C301	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C302	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C303		Ceramic chip 220pF/50V	CC73MSL1H221J
C304		Ceramic chip 220pF/50V	CC73MSL1H221J
C305		Ceramic chip 220pF/50V	CC73MSL1H221J
C306		Ceramic chip 220pF/50V	CC73MSL1H221J
C307		Ceramic chip 6800pF/50V	CK73MB1H682J
C308		Ceramic chip 6800pF/50V	CK73MB1H682J
C309		Ceramic chip 100pF/50V	CC73MSL1H101J
C310		Ceramic chip 100pF/50V	CC73MSL1H101J
C311	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSL)
C312	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSL)
C313	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C314	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C315	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C316	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C317		Ceramic 18pF/500V	CC45SL2H180KB
C318		Ceramic D36918pF/500V	CC45SL2H180KB
C319	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C320	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C321	255 1134 025	Mylar film 0.01µF/50V	CQ92M1H103KB
C322	255 1134 025	Mylar film 0.01µF/50V	CQ92M1H103KB
C325	053 1028 009	Ceramic 220pF/500V	CK45B2H221KB
C326	253 1028 009	Ceramic 220pF/500V	CK45B2H221KB
C327	255 1134 025	Mylar film 0.01µF/50V	CQ92M1H103KB
C331	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C332	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C333	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C334	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C351	9LA L004 71	8200µ/50v	8200µ/50v
C352	9LA L004 71	8200µ/50v	8200µ/50v
C355	255 1131 002	Mylar film 0.1µF/100V	MYL-ECQB2104KF3
C356	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KB
C357	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KB
C358	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C359	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C365		Ceramic 0.01µF	CCT103M16D3
C366		Ceramic 0.01µF	CCT103M16D3
C399	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KB
C401	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C402		Ceramic chip 2200pF/50V	CK73MSL1H222K
C403		Ceramic chip 220pF/50V	CC73MSL1H221J
C404		Ceramic chip 0.012µF/50V	CK73MB1H123K
C405		Ceramic chip 100pF/50V	CC73MSL1H101J
C406	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSL)
C407	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C408	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
C409		Ceramic chip 33pF/500V	CC45SL2H330KB
C410	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C411	255 4213 972	Mylar film 0.01µF/50V	CQ92M1H103KB

Ref. No.	Part No.	Part Name	Remarks
C421	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C422	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C425	253 1028 009	Ceramic 220pF/500V	CK45B2H221KB
C431	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB
C432		Ceramic chip 0.01µF	CCT103M16D3
C433	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KEB
C434	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KEB
C451	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C452	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C455		Ceramic chip 100pF/50V	CC73MSL1H101J
C456		Ceramic chip 100pF/50V	CC73MSL1H101J
C457	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C458	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C459		Ceramic chip 2200pF/50V	CK73MB1H222K
C460		Ceramic chip 2200pF/50V	CK73MB1H222K
C461	256 1034 004	Mylar film 0.18µF	CQM-184J500R
C462	256 1034 004	Mylar film 0.18µF	CQM-184J500R
C463	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C464	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C467		Ceramic chip 0.012µF/50V	CK73MB1H123K
C468		Ceramic chip 0.012µF/50V	CK73MB1H123K
C469		Ceramic chip 0.056µF/16V	CK73MB1C563K
C470		Ceramic chip 0.056µF/16V	CK73MB1C563K
C471	254 4196 928	Electrolytic 0.33µF/50V	CE04W1HR33(SRA)
C472	254 4196 928	Electrolytic 0.33µF/50V	CE04W1HR33(SRA)
C473		Ceramic chip 0.047µF/50V	CK73MF1H473Z
C474		Ceramic chip 0.022µF/50V	CK73MF1H223Z
C481	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C482	254 4256 042	Electrolytic 330µF/6.3V	CE04W0J331MB
C498		Ceramic chip 0.1µF/25V	CK73MF1E104Z
C499		Ceramic chip 0.1µF/25V	CK73MF1E104Z
C526		Ceramic chip 0.01µF	CCT103M16D3
C571	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C572	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C573		Ceramic chip 4700pF/50V	CK73MB1H472K
C574		Ceramic chip 4700pF/50V	CK73MB1H472K
C575		Ceramic chip 100pF/50V	CC73MSL1H101J
C576		Ceramic chip 100pF/50V	CC73MSL1H101J
C577	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C578	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C579	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C580	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C581	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C582	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C583	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB
C584	255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB
C585	256 1034 076	Mylar film 0.1µF/100V	MYL-ECQB2104KF3
C586	254 4261 772	Electrolytic 2200µF	CE04W1F222
C587	254 4261 772	Electrolytic 2200µF	CE04W1F222
C588	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C589	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)

Ref. No.	Part No.	Part Name	Remarks
C590		Ceramic chip 0.01µF/50V	CK73MB1H103K
C591		Ceramic chip 0.01µF/50V	CK73MB1H103K
C592	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C593	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C594		Ceramic chip 0.01µF/50V	CK73MB1H103K
C601	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C602	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C604	254 4254 080	Electrolytic 1000µF/16V	CE04W1C102MF
C605		Ceramic chip 5pF	CCT5R050D3
C606		Ceramic chip 5pF	CCT5R050D3
C607	254 4252 079	Electrolytic 1000µF/10V	CE04W1A102MF
C608	254 4252 079	Electrolytic 1000µF/10V	CE04W1A102MF
C671		Ceramic chip 0.01µF/50V	CK73MB1H103K
C672		Ceramic chip 0.01µF/50V	CK73MB1H103K
C675	254 4256 046	Electrolytic 100µF/25V	CE04W1E101MB(SSL)
C676	254 4256 046	Electrolytic 100µF/25V	CE04W1E101MB(SSL)
C677		Ceramic chip 0.01µF/50V	CK73MB1H103K
C801	254 4250 084	Electrolytic 3300µF/6.3V	CE04W0J332M
C802		Ceramic chip 0.01µF/50V	CK73MB1H103K
C803		Ceramic chip 0.01µF/50V	CK73MB1H103K
C804	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
C805	255 4199 915	Mylar film 0.12µF	CQM-124J500R
C806	254 4250 039	Electrolytic 220µF/6.3V	CE04W0J221MB(SME)
C807		Ceramic chip 0.01µF/50V	CK73MB1H103K
C921	254 4250 039	Electrolytic 47µF/25V	CE04W1E470MB(SSL)

OTHER PARTS GROUP

CN004A		4P PH Pinpost	
CN004B		4P PH B-C Connector	L=80
CN005A		4P MX Pinpost	
CN006A		6P PIN Header	
CN007A		8P PIN Header	
CN008A		7P PIN Header	
CN009A		10P PIN Header	
CN010A		10P PIN Header	
CN013A		13P PIN Header	
CN015C		10P PIN Header	
CN015D		10P PIN Header	
CN016A		10P PIN Header	
CN017		6P TSB Connector	L=100
CN018A		2P TXL Pinpost	
CN018B		2P TXL B-C Connector	L=350
CN025A	9LE D007 92	FFC Connector	
JK002	9LE R002 41	1P USPIN Jack	
JK003	9LE R002 26	2P USPIN Jack	
JK502	9L2 6950 13	Headphones jack	

Ref. No.	Part No.	Part Name	Remarks
JK601	9LE R002 33	4P USPIN Jack	
L301	9L2 2273 63	Audio trap coil	
L302	9L2 2273 63	Audio trap coil	
L401	9L2 2273 63	Audio trap coil	
L571	9L2 2273 63	Audio trap coil	
L572	9L2 2273 63	Audio trap coil	
RL481	9L2 6413 21	Speaker relay	DC24V
RL482	9L2 6413 21	Speaker relay	DC24V
RL571	9L2 6413 21	Speaker relay	DC24V
SW001	9LF E001 81	Speaker switch	
SP003	9LE U004 01	Speaker terminal	
SP301	9LE U003 81	Speaker terminal	
SP501	9LE U000 86	Speaker terminal	
TP-L		3P MX Pinpost	
TP-R		3P MX Pinpost	
TP-C		3P MX Pinpost	

FL P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC001	263 0891 001	IC LA1265S	
IC002	9LC P030 61	IS LA6401	
IC003	262 2348 009	IC LM7001	
IC101	263 0672 903	IC BA4558F	
IC102	9LC P030 51	IC LC78212	
IC103	263 0672 903	IC BA4558F	
IC201	263 0906 006	IC NJM2177AF	
IC202	9LC K050 32	IC NJU9702G	
IC203	262 1875 900	IC BU4066BCF	
IC205	262 1875 900	IC BU4066BCF	
IC261	263 0672 903	IC BA4558F	
IC263	263 0672 903	IC BA4558F	
IC265	263 0905 007	IC BA6208F	
IC266	262 0625 009	IC TC9176P	
IC701	262 2455 002	IC TMP87CM71F-6668	
IC702	9LH N000 31	IC SBX1910-52	
TR002	273 0434 902	Transistor 2SC2058S(Q)	
TR003	269 0046 906	Transistor DTA114ES	
TR004	269 0046 906	Transistor DTA114ES	
TR005	273 0198 002	Transistor 2SC1815Y	
TR006	275 0053 907	Transistor 2SK365(BL/GR)	
TR007	269 0072 909	Transistor DTC323TS	
TR008	269 0072 909	Transistor DTC323TS	
TR009	269 0079 902	Transistor DTC144TS	
TR010	269 0080 904	Transistor DTA114TS	
TR201	UDM D010 434	Transistor DTA114EKA	
TR202	269 0054 901	Transistor DTC114EKA	
TR203	269 0054 901	Transistor DTC144EKA	
TR205	269 0054 901	Transistor DTC144EKA	
TR206		Transistor DTC143EKA	
TR207	269 0054 901	Transistor DTC144EKA	
TR208	269 0054 901	Transistor DTC144EKA	
TR209	269 0054 901	Transistor DTC144EKA	
TR210	273 0303 910	Transistor 2SC1740S(S)	
TR552	273 0303 910	Transistor 2SC1740S(S)	
TR701	269 0020 906	Transistor DTC114ES	
TR702	269 0020 906	Transistor DTC114ES	
TR703	269 0062 906	Transistor DTC124ES	
D001	276 0401 905	Diode 1SS133	
D002	276 0401 905	Diode 1SS133	
D003	276 0401 905	Diode 1SS133	
D006	9L2 3980 64	Diode IN4001-U01	

Ref. No.	Part No.	Part Name	Remarks
D202	276 0401 905	Diode 1SS133	
D203	276 0401 905	Diode 1SS133	
D204	276 0401 905	Diode 1SS133	
D205	276 0401 905	Diode 1SS133	
D261	276 0401 905	Diode 1SS133	
D551	276 0401 905	Diode 1SS133	
D552	9L2 3980 54	Diode IN4001-U01	
D553	9L2 3980 64	Diode IN4001-U01	
D554	9L2 3980 64	Diode IN4001-U01	
D555	9L2 3980 64	Diode IN4001-U01	
D556	9L2 3980 64	Diode IN4001-U01	
D557	9L2 3980 64	Diode IN4001-U01	
D701	276 0401 905	Diode 1SS133	
D702	276 0401 905	Diode 1SS133	
D703	276 0401 905	Diode 1SS133	
ZD201	9L2 3390 31Q	Zener diode HZS6C1L	
ZD701	9L2 3390 73Q	Zener diode HZS9A3L	
LD701	9L2 3984 05	LED SLR54VC3F	
LD702	9L2 3984 05	LED SLR54VC3F	
RESISTORS GROUP			
R005	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R007	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ
R008	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ
R009	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ
R010	241 2399 019	Carbon 1.8kohm	RDL-182J1-16LQ
R011	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R014	241 2396 025	Carbon 100ohm	RDL-101J1-16LQ
R015	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ
R016	241 2399 996	Carbon 3.9kohm	RDL-392J1-16LQ
R017	241 2397 066	Carbon 390ohm	RDL-391J1-16LQ
R018	241 2396 960	Carbon 150ohm	RDL-151J1-16LQ
R019	241 2396 025	Carbon 100ohm	RDL-101J1-16LQ
R020	241 2401 936	Carbon 15kohm	RDL-153J1-16LQ
R021	241 2396 944	Carbon 120ohm	RDL-121J1-16LQ
R022	241 2402 935	Carbon 39kohm	RDL-393J1-16LQ
R024	241 2400 953	Carbon 6.8kohm	RDL-682J1-16LQ
R025	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R026	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R027	241 2399 970	Carbon 3.3kohm	RDL-332J1-16LQ
R028	241 2400 089	Carbon 9.1kohm	RDL-912J1-16LQ
R029	241 2402 090	Carbon 68kohm	RDL-683J1-16LQ
R030	241 2402 980	Carbon 62kohm	RDL-623J1-16LQ
R031	241 2402 980	Carbon 62kohm	RDL-623J1-16LQ
R032	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R033	241 2403 950	Carbon 120kohm	RDL-124J1-16LQ
R034	241 2403 950	Carbon 120kohm	RDL-124J1-16LQ

Ref. No.	Part No.	Part Name	Remarks
R035	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R036	241 2399 970	Carbon 3.3kohm	RDL-332J1-16LQ
R037	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R038	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R039	241 2399 019	Carbon 1.8kohm	RDL-182J1-16LQ
R040	241 2399 019	Carbon 1.8kohm	RDL-182J1-16LQ
R041	241 2400 953	Carbon 6.8kohm	RDL-682J1-16LQ
R042	241 2400 953	Carbon 6.8kohm	RDL-682J1-16LQ
R043	241 2401 059	Carbon 18kohm	RDL-183J1-16LQ
R044	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R045	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
R046	241 2400 034	Carbon 5.6kohm	RDL-562J1-16LQ
R050	241 2396 025	Carbon 100ohm	RDL-101J1-16LQ
R051	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R052	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
R065	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ
R101		Chip 390ohm	RNC391J1-16
R102		Chip 390ohm	RNC391J1-16
R103		Chip 68kohm	RNC683J1-16
R104		Chip 68kohm	RNC683J1-16
R105		Chip 150kohm	RNC154J1-16
R106		Chip 150kohm	RNC154J1-16
R107		Chip 47ohm	RNC470J1-16
R108		Chip 47ohm	RNC470J1-16
R109		Chip 750ohm	RMC73M-F751JR
R110		Chip 750ohm	RMC73M-F751JR
R111		Chip 560kohm	RNC564J1-16
R112		Chip 560kohm	RNC564J1-16
R113		Chip 47kohm	RNC473J1-16
R114		Chip 47kohm	RNC473J1-16
R115		Chip 22ohm	RNC220J1-16
R116		Chip 22ohm	RNC220J1-16
R117		Chip 100ohm	RNC101J1-16
R118		Chip 100ohm	RNC101J1-16
R119		Chip 470kohm	RNC474J1-16
R120		Chip 470kohm	RNC474J1-16
R121		Chip 1Mohm	RNC105J1-16
R122		Chip 1Mohm	RNC105J1-16
R123		Chip 1Mohm	RNC105J1-16
R124		Chip 1Mohm	RNC105J1-16
R125		Chip 1Mohm	RNC105J1-16
R126		Chip 1Mohm	RNC105J1-16
R127		Chip 1Mohm	RNC105J1-16
R128		Chip 1Mohm	RNC105J1-16
R133		Chip 470ohm	RNC471J1-16
R134		Chip 470ohm	RNC471J1-16
R135		Chip 470ohm	RNC471J1-16
R136		Chip 470ohm	RNC471J1-16
R137		Chip 470ohm	RNC471J1-16
R138		Chip 470ohm	RNC471J1-16
R139		Chip 470ohm	RNC471J1-16

Ref. No.	Part No.	Part Name	Remarks
R140		Chip 470ohm	RNC471J1-16
R141		Chip 470ohm	RNC471J1-16
R142		Chip 470ohm	RNC471J1-16
R143		Chip 470ohm	RNC471J1-16
R144		Chip 470ohm	RNC471J1-16
R145		Chip 680kohm	RNC684J1-16
R151		Chip 12kohm	RNC123J1-16
R152		Chip 12kohm	RNC123J1-16
R153		Chip 56kohm	RNC563J1-16
R154		Chip 56kohm	RNC563J1-16
R155		Chip 100kohm	RNC104J1-16
R156		Chip 100kohm	RNC104J1-16
R157		Chip 100ohm	RNC101J1-16
R158		Chip 100ohm	RNC101J1-16
R159		Chip 100ohm	RNC101J1-16
R160		Chip 100ohm	RNC101J1-16
R201		Chip 7.5kohm	RMC73M-1F752JR
R202		Chip 47kohm	RNC473J1-16
R203		Chip 15kohm	RNC153J1-16
R204		Chip 7.5kohm	RMC73M-1F752JR
R205		Chip 47kohm	RNC473J1-16
R206		Chip 15kohm	RNC153J1-16
R207		Chip 7.5kohm	RMC73M-1F752JR
R208		Chip 56kohm	RNC563J1-16
R209		Chip 56kohm	RNC563J1-16
R210		Chip 100kohm	RNC104J1-16
R211		Chip 100kohm	RNC104J1-16
R212		Chip 15kohm	RNC153J1-16
R213		Chip 8.2kohm	RNC822J1-16
R214		Chip 15kohm	RNC153J1-16
R215		Chip 330kohm	RNC334J1-16
R218		Chip 47kohm	RNC473J1-16
R219		Chip 47kohm	RNC473J1-16
R220		Chip 47kohm	RNC473J1-16
R221		Chip 8.2kohm	RNC822J1-16
R222		Chip 8.2kohm	RNC822J1-16
R223		Chip 8.2kohm	RNC822J1-16
R224		Chip 1Mohm	RNC105J1-16
R225		Chip 15kohm	RNC153J1-16
R226		Chip 18kohm	RNC183J1-16
R227		Chip 15kohm	RNC153J1-16
R228		Chip 20ohm	RMC73M-1F200JR
R229		Chip 20ohm	RMC73M-1F200JR
R230		Chip 7.5kohm	RMC73M-1F752JR
R231		Chip 5.6kohm	RNC562J1-16
R232		Chip 18kohm	RNC183J1-16
R233		Chip 47kohm	RNC473J1-16
R234		Chip 47kohm	RNC473J1-16
R235		Chip 47kohm	RNC473J1-16
R236	241 2321 045	Carbon 220ohm	RD14S2E221J(NB)
R237		Chip 1kohm	RNC102J1-16

Ref. No.	Part No.	Part Name	Remarks
R239		Chip 100ohm	RNC101J1-16
R240		Chip 100ohm	RNC101J1-16
R241		Chip 47kohm	RNC473J1-16
R242		Chip 47kohm	RNC473J1-16
R243		Chip 100kohm	RNC104J1-16
R251		Chip 2.2kohm	RNC222J1-16
R252		Chip 2.2kohm	RNC222J1-16
R253		Chip 4.7kohm	RNC472J1-16
R254		Chip 4.7kohm	RNC472J1-16
R265		Chip 220kohm	RNC224J1-16
R266		Chip 1kohm	RNC102J1-16
R267		Chip 3.3kohm	RNC332J1-16
R268		Chip 100ohm	RNC101J1-16
R269		Chip 100kohm	RNC104J1-16
R270		Chip 100kohm	RNC104J1-16
R271		Chip 220kohm	RNC224J1-16
R272		Chip 1kohm	RNC102J1-16
R273		Chip 3.3kohm	RNC332J1-16
R274		Chip 100ohm	RNC101J1-16
R280		Chip 100ohm	RNC101J1-16
R281		Chip 470kohm	RNC474J1-16
R282		Chip 1kohm	RNC102J1-16
R283		Chip 5.6kohm	RNC562J1-16
R284		Chip 33kohm	RNC333J1-16
R285		Chip 470kohm	RNC474J1-16
R286		Chip 100ohm	RNC101J1-16
R287		Chip 1kohm	RNC102J1-16
R288		Chip 5.6kohm	RNC562J1-16
R290		Chip 33kohm	RNC333J1-16
R296		Chip 10kohm	RNC103J1-16
R297		Chip 10kohm	RNC103J1-16
R298	241 2321 032	Carbon 4.7ohm	RD14S2E4R7J(NB)
R301	241 2396 025	Carbon 100ohm	RDL-101J1-16
R302	241 2396 025	Carbon 100ohm	RDL-101J1-16
R590	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ
R591	241 2400 911	Carbon 10kohm	RDL-103J1-16LQ
R592	241 2375 978	Carbon 20ohm	RD14S2E200J(NR)
R701	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R702	241 2396 979	Carbon 200ohm	RDL-201J1-16LQ
R703	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R704	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ
R707	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R708	241 2396 999	Carbon 200ohm	RDL-201J1-16LQ
R709	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R710	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ
R711	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R712	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ
R713	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R719	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ

Ref. No.	Part No.	Part Name	Remarks
R720	241 2396 999	Carbon 200ohm	RDL-201J1-16LQ
R721	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R722	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ
R723	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R724	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ
R725	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R726	241 2396 979	Carbon 200ohm	RDL-201J1-16LQ
R727	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R728	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ
R729	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R730	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ
R731	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ
R732	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R733	241 2399 051	Carbon 2.7kohm	RDL-272J1-16LQ
R734	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ
R735	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ
R736	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ
R737	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ
R738		Carbon 2kohm	RDL-202J1-16LQ
R742	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ
R743	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ
R744	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ
R745	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ
VR261	9LA Y001 71	Variable resistor 100kohm	Master volume
CAPACITORS GROUP			
C004		Ceramic 12pF/50V	CCT120J50D3
C007		Ceramic 0.01µF/16V	CCT103M16D3
C008		Ceramic 0.01µF/16V	CCT103M16D3
C011	254 3056 917	Electrolytic 1µF/50V	CE04W1H1R0MB(BP)
C013	254 4196 009	Electrolytic 0.1µF/50V	CE04W1H0R1M(SRA)
C014		Ceramic 0.022µF/50V	CCT223Z50D3
C016		Ceramic 100pF/50V	CCT101Z50D3
C017		Ceramic 0.01µF/16V	CCT103M16D3
C018		Ceramic 0.01µF/16V	CCT103M16D3
C019	254 4260 032	Electrolytic 0.47µF/50V	CE04W1HR47MB(SSL)
C020	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C021	254 4260 087	Electrolytic 10µF/50V	CE04W1H100MB(SSL)
C022		Ceramic 0.022µF/50V	CCT223Z50D3
C023		Ceramic 100pF/50V	CCT101J50D3
C024	255 1135 095	Mylar film 0.056µF/50V	CQ92M1H563JB
C025	254 4260 993	Electrolytic 22µF/50V	CE04W1H220MB(SSL)
C027	254 4260 993	Electrolytic 22µF/50V	CE04W1H220MB(SSL)
C028	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C029		Ceramic 0.01µF/16V	CCT103M16D3
C031		Ceramic 0.01µF/16V	CCT103M16D3
C033	253 3125 007	Ceramic 15pF/50V	CCT150J50D3
C034	253 3125 007	Ceramic 15pF/50V	CCT150J50D3
C035	255 1134 041	Mylar film 0.047µF/50V	CQ92M1H473JB
C036		Ceramic 0.01µF/16V	CCT103M16D3
C037		Ceramic 0.01µF/16V	CCT103M16D3

Ref. No.	Part No.	Part Name	Remarks
C039		Ceramic 0.01µF/16V	CCT103M16D3
C040	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C041	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
C042	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C043	254 4196 012	Electrolytic 0.22µF/50V	CE04W1HR22(SRA)
C044	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C045		Ceramic 0.01µF/16V	CCT103M16D3
C046	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C047	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C048	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C049		Ceramic 0.01µF/16V	CCT103M16D3
C051	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C052	254 4260 087	Electrolytic 10µF/50V	CE04W1H100MB(SSL)
C053		Ceramic 680pF/50V	CCT681K50D3
C054		Ceramic 680pF/50V	CCT681K50D3
C056		Ceramic 0.01µF/16V	CCT103M16D3
C057		Ceramic 0.01µF/16V	CCT103M16D3
C059		Ceramic 0.01µF/16V	CCT103M16D3
C060		Ceramic 0.01µF/16V	CCT103M16D3
C065		Ceramic 0.01µF/16V	CCT103M16D3
C101		Ceramic 220pF/50V	CC73MSL1H221J
C102		Ceramic 220pF/50V	CC73MSL1H221J
C103	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C104	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C105		Ceramic 100pF/50V	CC73MSL1H101J
C106		Ceramic 100pF/50V	CC73MSL1H101J
C107	254 4254 022	Electrolytic 33µF/16V	CE04W1C330MB(SSL)
C108	254 4254 022	Electrolytic 33µF/16V	CE04W1C330MB(SSL)
C109	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB
C110	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB
C111		Ceramic 1500pF/50V	CK73MB1H152K
C112		Ceramic 1500pF/50V	CK73MB1H152K
C113		Ceramic 0.01µF/50V	CK73M1H103Z
C114		Ceramic 0.01µF/50V	CK73M1H103Z
C115	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C116	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
C129		Ceramic 0.1µF/25V	CK73M1E104Z
C130		Ceramic 0.1µF/25V	CK73M1E104Z
C131		Ceramic 0.1µF/25V	CK73M1E104Z
C133	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C136		Ceramic 0.022µF/50V	CK73M1H223Z
C137		Ceramic 0.022µF/50V	CK73M1H223Z
C138		Ceramic 0.022µF/50V	CK73M1H223Z
C139		Ceramic 2200pF/50V	CK73M1H222M
C151	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C152	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C153		Ceramic 100pF/50V	CC73MSL1H101J
C154		Ceramic 100pF/50V	CC73MSL1H101J
C155	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
C156	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)

Ref. No.	Part No.	Part Name	Remarks
C201	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C202	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C203		Ceramic 680pF/50V	CC73MSL1H681J
C204	255 4212 054	Mylar film 0.047μF/50V	CQ92M1H473KB
C205	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C206	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C207		Ceramic 680pF/50V	CC73MSL1H681J
C208	255 4212 054	Mylar film 0.047μF/50V	CQ92M1H473KB
C209	254 4260 993	Electrolytic 22μF/50V	CE04W1H220MB(SSL)
C210	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C211	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C212	254 4252 037	Electrolytic 100μF/10V	CE04W1A101MB
C213	255 1241 940	Mylar film 4700pF/50V	CQ92M1H472JB
C214	254 4260 993	Electrolytic 22μF/50V	CE04W1H220MB(SSL)
C215	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C216	255 4212 009	Mylar film 0.22μF/50V	CQ92M1H224KB
C217	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C218	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C219	254 4256 046	Electrolytic 100μF/25V	CE04W1E101MB
C220	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB
C221	254 4250 055	Electrolytic 470μF/6.3V	CE04W0J471MB
C222	255 4212 054	Mylar film 0.047μF/50V	CQ92M1H473JB
C223		Ceramic 470pF/50V	CC73MSL1H471J
C224		Ceramic 2200pF/50V	CK73MB1H222K
C225	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C226	256 1035 075	Mylar film 0.068μF/50V	CQM-684J500HB
C227	255 4212 009	Mylar film 0.22μF/50V	CQ92M1H224KB
C228	255 4212 009	Mylar film 0.22μF/50V	CQ92M1H224KB
C229	255 4212 009	Mylar film 0.22μF/50V	CQ92M1H224KB
C230	254 4260 074	Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)
C231	254 4260 074	Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)
C232	255 4212 009	Mylar film 0.22μF/50V	CQ92M1H224KB
C233	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C234	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C235	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C236	255 4224 945	Mylar film 0.1μF/50V	CQ92M1H104KB
C237	255 4223 962	Mylar film 0.022μF/50V	CQ92M1H223JB
C238	255 4223 962	Mylar film 0.022μF/50V	CQ92M1H223JB
C239	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C240	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C241	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C242		Ceramic 0.1μF/25V	CK73MF1E104Z
C243	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C244	025 4426 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C245		Ceramic 470pF/50V	CC73MSL1H471J
C246		Ceramic 3300pF/50V	CK73MB1H332K
C247		Ceramic 0.1μF/25V	CK73MF1E104Z
C248		Ceramic 0.1μF/25V	CK73MF1E104Z
C249		Ceramic 0.1μF/25V	CK73MF1E104Z
C250	254 4256 033	Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C251		Ceramic 0.1μF/25V	CK73MF1E104Z
C252		Ceramic 470pF/50V	CC73MSL1H471J

Ref. No.	Part No.	Part Name	Remarks
C253		Ceramic 5600pF/50V	CK73MB1H562K
C254		Ceramic 5600pF/50V	CK73MB1H562K
C255		Ceramic 0.1μF/25V	CK73MF1E104Z
C256	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C257	254 4252 037	Electrolytic 100μF/10V	CE04W1A101MB
C258	254 4256 033	Electrolytic 47μF/25V	CE04W1E470MB(SSL)
C259		Ceramic 220pF/50V	CC73MCH1H221J
C260		Ceramic 220pF/50V	CC73MCH1H221J
C261	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C262	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C265	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C266	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C268	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C269		Ceramic 470pF/50V	CC73MSL1H471J
C270	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C271	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C272		Ceramic 470pF/50V	CC73MSL1H471J
C273	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C277	245 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C279	245 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C283	245 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C284		Ceramic 0.022μF/50V	CK73MF1H223Z
C285	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C286		Ceramic 0.022μF/50V	CK73MF1H223Z
C287	254 4196 944	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C288		Ceramic 0.01μF/50V	CK73MF1H103Z
C289		Ceramic 0.1μF/25V	CK73MF1E104Z
C290		Ceramic 0.01μF/50V	CK73MF1H103Z
C295		Ceramic 220pF/50V	CC73MSL1H221J
C297	254 4260 087	Electrolytic 10μF/25V	CE04W1E100MB(SSL)
C298	254 4260 087	Electrolytic 10μF/50V	CE04W1H100MB(SSL)
C554	254 4260 045	Electrolytic 1μF/50V	CE04W1H1R0MB(SSL)
C555	254 4256 088	Electrolytic 1000μF/25V	CE04W1E102MF
C556	253 1181 904	Ceramic 0.01μF/50V	CK451H103ZB
C557	253 1181 904	Ceramic 0.01μF/50V	CK451H103ZB
C559	253 8001 100	Ceramic 250pF	CC-472M251F-D
C703	254 4260 074	Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)
C705	254 4250 929	Electrolytic 100μF/6.3V	CE04W0J101MB
C706		Ceramic 0.01μF/16V	CCT103M16D3
C707	254 4256 046	Electrolytic 10μF/25V	CE04W1E100MB(SSL)

Ref. No.	Part No.	Part Name	Remarks
OTHER PARTS GROUP			
CF001	261 0135 907	Ceramic filter SFE10.7MA-8	
CF002	261 0136 906	Ceramic filter SFE10.7MS2G-A	
CF003	9LB P005 01	Ceramic filter BFU450C4	
CF004	9LB P004 91	Ceramic filter CMU2-456A16	
CN001A		2P MX Pin post	AVR-750/770 Models only
CN001B		2P MX B-C Conneccter L=350	AVR-750/770 Models only
CN002A		2P TXL B-C Cpnnector L=100	
CN002B		2PTXL Pin post	
CN005B		4P MX B-C Connector L=350	
CN006B		6P Socket	
CN008B		7P Socket	
CN007B		8P Socket	
CN009B		10P PH B-C Connector L=270	
CN010B		10P Socket	
CN015B		10P Socket	
CN016B		10P Socket	
CN013B		13P Socket	
CN015A		10P Socket	
CN003A		2P PH B-C Connector L=270	
CN003B		2P PH Pin post	
CN025B	9LE D008 22	25P FFC Connector	
E003	9L2 7292 52R	Fuse holder	
E004	9L2 7292 52R	Fuse holder	
E005	9L2 7292 52R	Fuse holder	AVR-750/770 Models only
E006	9L2 7292 52R	Fuse holder	AVR-750/770 Models only
E500	9L2 7292 52R	Fuse holder	
E501	9L2 7292 52R	Fuse holder	
E502	9L2 7292 52R	Fuse holder	
E503	9L2 7292 52R	Fuse holder	
E705	9LN J017 11	FL holder	
FL701	9LD D000 41	FL Tube	
SW002	9L2 6225 21	Slide switch	AVR-750/770 Models only
S552	9LF G000 11	Voltage selector	AVR-750/770 Models only
S553	9LF G000 11	Voltage selector	AVR-750/770 Models only
SW702	9L2 6396 82R	Tact switch	
SW703	9L2 6396 82R	Tact switch	
SW704	9L2 6396 82R	Tact switch	
SW708	9L2 6396 82R	Tact switch	
SW709	9L2 6396 82R	Tact switch	
SW710	9L2 6396 82R	Tact switch	
SW711	9L2 6396 82R	Tact switch	
SW712	9L2 6396 82R	Tact switch	
SW713	9L2 6396 82R	Tact switch	

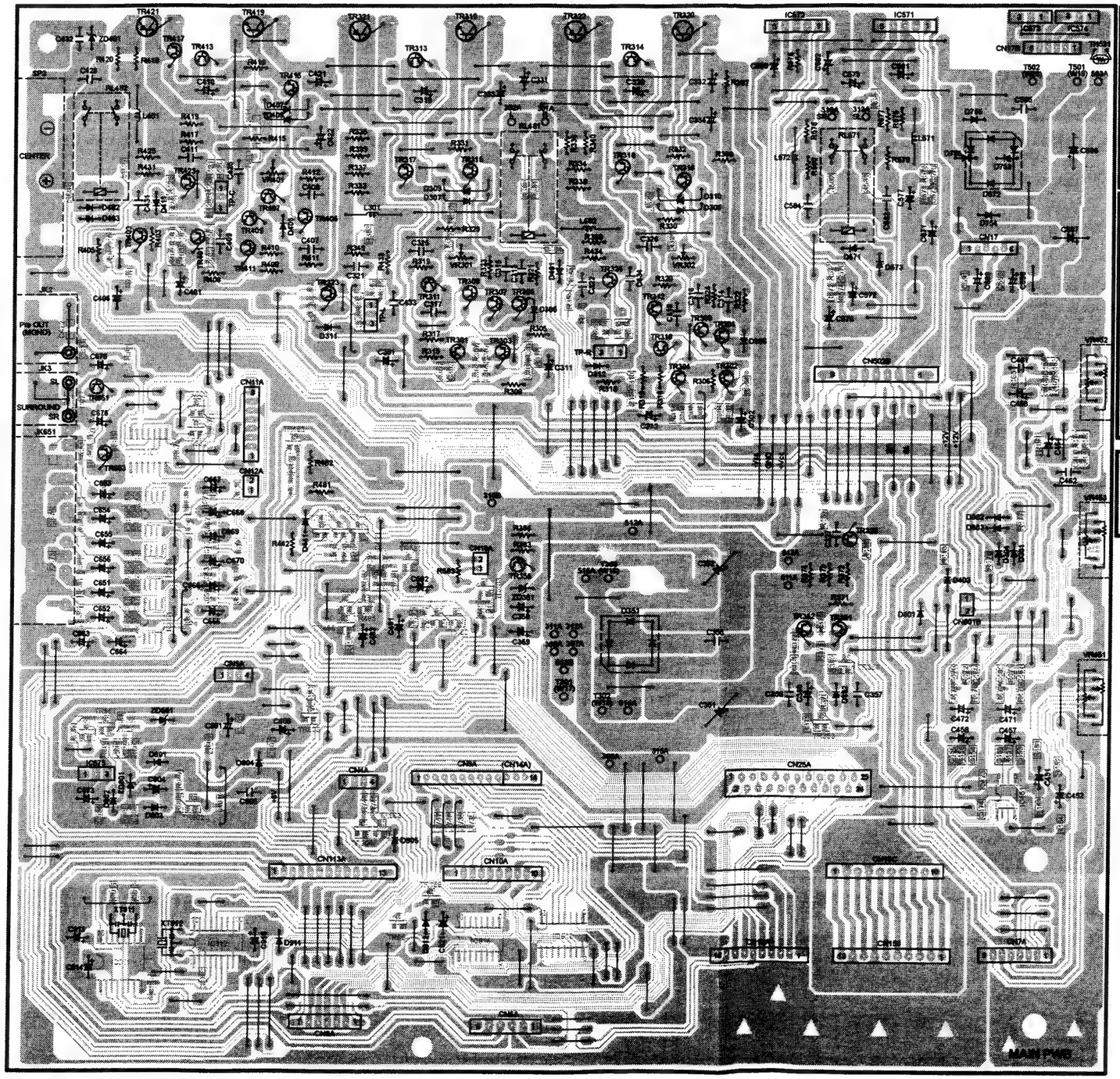
Ref. No.	Part No.	Part Name	Remarks
SW719	9L2 6396 82R	Tact switch	
SW720	9L2 6396 82R	Tact switch	
SW721	9L2 6396 82R	Tact switch	
SW722	9L2 6396 82R	Tact switch	
SW723	9L2 6396 82R	Tact switch	
SW724	9L2 6396 82R	Tact switch	
SW725	9L2 6396 82R	Tact switch	
SW726	9L2 6396 82R	Tact switch	
SW727	9L2 6396 82R	Tact switch	
SW728	9L2 6396 82R	Tact switch	
SW729	9L2 6396 82R	Tact switch	
SW730	9L2 6396 82R	Tact switch	
SW731	9LF E002 03	Push switch	
JK101	9LE R002 23	6P US PIN Jack	
JK102	9LE R002 22	8P US PIN Jack	
L201	9L2 1222 54F	Choke coil 120µH	
⚠ RL551	9LF J000 51	Power relay	
PG001	—	2P VH Pin post	
T003	9LB J002 51	AM IFT	
T004	9L2 1370 33	FM DET Trans	
⚠ T501	9LB T005 32	Sub power trans	AVR-760/780 Models only
⚠ T501	9LB T005 33	Sub power trans	AVR-750/770 Models only
TU001	9LH H000 31	Tuner pack	
XT001	9L2 1701 32	Crystal 7.2MHz	
XT201	399 0223 907	Crystal CSA2.00MG	
XT701	399 9018 003	Crystal 4MHz	
W003		1P Board-in connector (WHT)	
W004		1P Board-in connector (ORG)	
W007		1P Board-in connector (GRY)	
W008		1P Board-in connector (RED)	AVR-750/770 Models only
W009		1P Board-in connector (ORG)	AVR-750/770 Models only
W010		1P Board-in connector (BLU)	AVR-750/770 Models only
W011		1P Board-in connector (GRY)	AVR-750/770 Models only
W012		1P Board-in connector (WHT)	AVR-750/770 Models only
W013		1P Board-in connector (GRY)	AVR-750/770 Models only
W014		1P Board-in connector (BLU)	AVR-750/770 Models only
W015		1P Board-in connector (WHT)	AVR-750/770 Models only
AT001	9LE U000 11	ANT Terminal	
BL001	9LB H005 31	MW ANT OSC Coil	

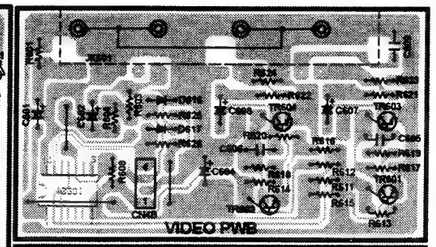
PRINTED WIRING BOARD

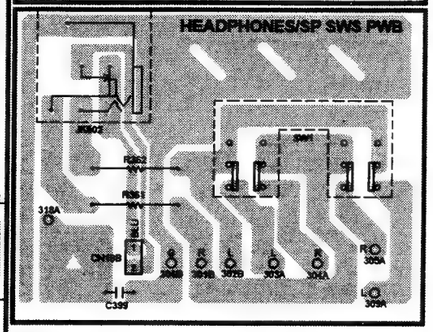
1 2 3 4 5 6 7 8

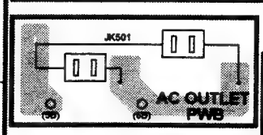
A B C D E

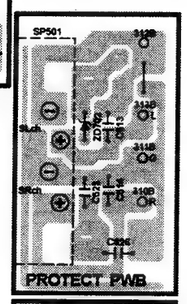
MAIN P.W.B. Ass'y UNIT

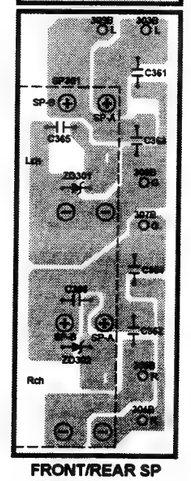








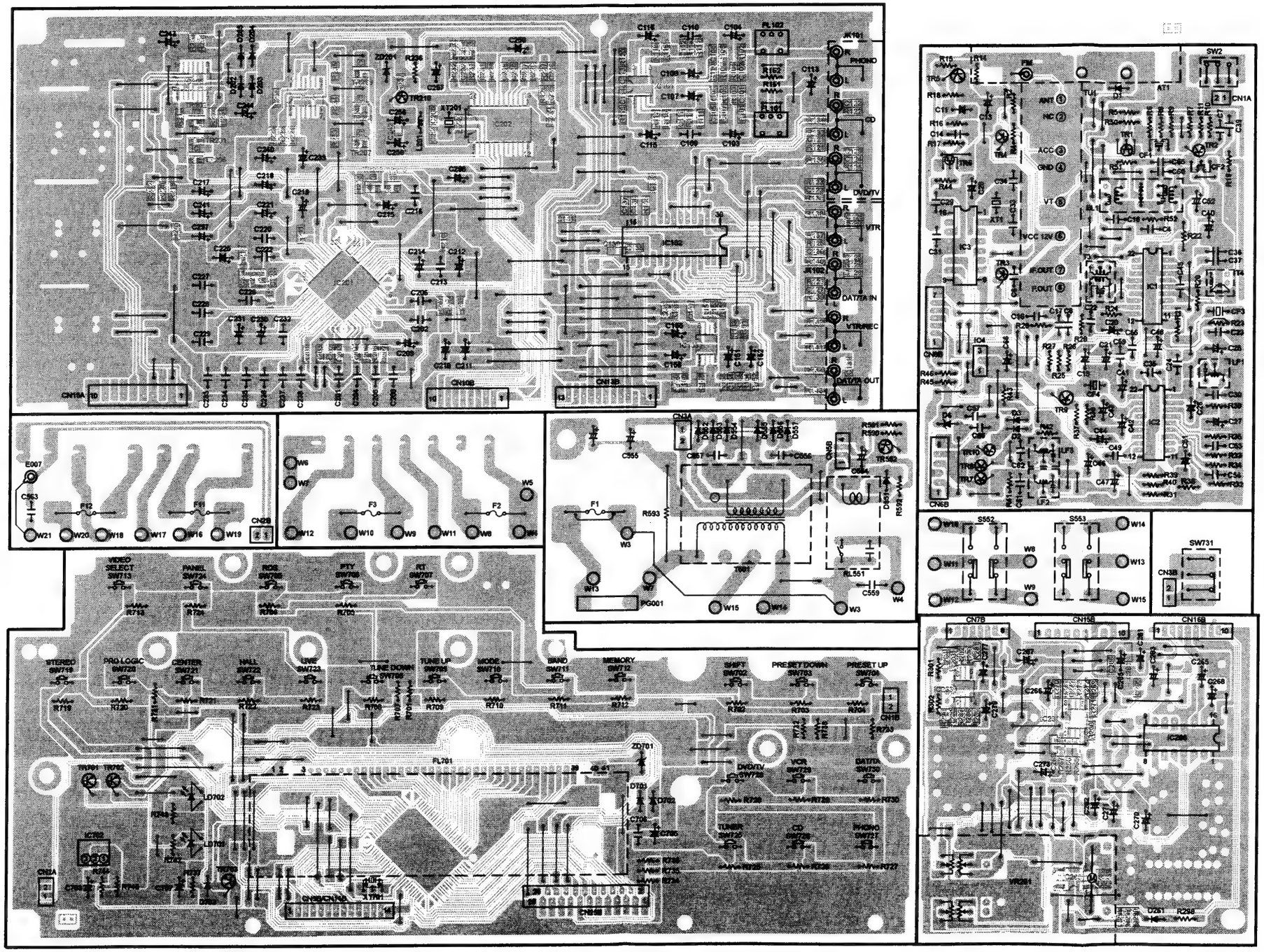




1 2 3 4 5 6 7 8

A B C D E

FL P.W.B. Ass'y UNIT



EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

AVR-760/780 models only

PARTS LIST OF EXPLODED VIEW

AVR-750/760/770/780

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1		Main P.W.B. Ass'y		1
1-1	–	Main P.W.B. unit		
1-2	–	Video P.W.B. unit		
1-3	–	AC Outlet P.W.B. unit		
1-4	–	Headphones/SP sw P.W.B. unit		
1-5	–	SP Terminal P.W.B. unit		
1-6	–	Protect P.W.B. unit		
2		FL P.W.B. Ass'y		1
2-1	–	FL P.W.B. unit		
2-2	–	Audio P.W.B. unit		
2-3	–	Power supply P.W.B. unit		
2-4	–	Voltage select sw P.W.B. unit		
2-5	–	Tuner P.W.B. unit		
2-6	–	Master volume P.W.B. unit		
2-7		Power switch P.W.B. unit		
2-8		TF-PRI P.W.B. unit		
2-9		TF-SEC P.W.B. unit		
2-10		STAB1 unit		
3	9LQ A004 81	Bottom chassis		1
4	104 0194 205	Foot	Black only	4
		Foot	Gold only	
5	9LP C018 02	VS button	Gold only	1
	9LP C018 01		Black only	
⚠ 7	Note	AC Cord	AVR-750/770	1
	Note	AC Cord	AVR-760/780	1
8	9LN X016 21	Phono earth terminal		1
9	Note	Inner panel	Gold only	1
		Inner panel	Black only	
10	9LP H051 71	Clear panel		1
11	9LP C025 01	Function button		1
12	9LP C017 63	Tunner button	Gold only	1
	9LP C017 61		Black only	
13	9LP C017 72	Tuning button	Gold only	1
	9LP C017 71		Black only	
14	9LP C017 82	Power button	Gold only	1
	9LP C017 81		Black only	
15	9LP C017 92	SP button	Gold only	2
	9LP C01 791		Black only	
16	Note	Front panel		1
⚠ 17	Note	Power trans		1
18	9LP C025 12	VOL knob	Gold only	1
	9LP C025 11		Black only	
19	9LP C017 42	BASS knob	Gold only	3
	9LP C017 41		Black only	
20	9LQ A004 94	Top cover	Gold only	1
	9LQ A004 92		Black only	
21	Note	Rear plate		1
⚠ 23	9L2 7277 25	Fuse T4A	F11	1
⚠ 24	9L2 7277 25	Fuse T4A	F12	1
⚠ 25	Note	Fuse T5A	F2	1
⚠ 26	Note	Fuse T2.5A	F2	1
⚠ 27	Note	Fuse T2.5A	F3	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
28	9LE K001 18	25P FFC Cable		1
29	–	Heat sink		1
30	9LM L002 51	Mini PWB post		5
31	9LM 004 31	PWB support L		3
32	9LP P002 41	Side wood L	Gold only	1
33	9LP P002 31	Side wood R	Gold only	1
34		Card spacer (L=8)		5
35		Heat sink bracket		1
⚠ 36	Note	Mini trans		1
★	–	Origin label	AVR-750/770 Models only	1
★	–	Number sheet		1
★	–	Preset label	AVR-750/770 Models only	1
★	–	Caution label	AVR-760/780 Models only	1
★	–	Rating label	AVR-760/780 Models only	1

Screws

101	9L8 6914 10	Screw 3 x 10 BT BIND		29
102	9L8 6714 06	Screw 3 x 6 DT BIND		4
103	9L8 6794 06	Screw 3 x 6 DT BIND B		5
104	9L8 6796 06	Screw 4 x 6 DT BIND B		8
105	475 6138 002	NUT M9 x 0.75		4
106	475 6124 003	NUT M12 x 1		1
107	9L8 6914 14	Screw 3 x 14 BT BIND		1
108	9L8 6794 08	Screw 3 x 8 DT BIND B		4
109	9L8 6994 10	Screw 3 x 10 BT BIND B		27
110	9L8 6993 08	Screw 2.6 x 8 BT BIND B	AVR-750/770 Models only	4
111	9L8 6914 14	Screw 3 x 14 BT BIND B		1
112	9L8 6994 08	Screw 3 x 8 BT BIND B		2
113	9LM J009 81	Screw (Side wood)	Gold only	4

PACKING & ACCSSORIES

201	9L3 6402 14W	Poly sack		1
202	9L2 7593 41	AM Loop ant.		1
203	9LE F021 33	FM Ant.		1
204	9LE Y002 81	Plug adapter	AVR-750/770 Models only	1
205	9LQ R233 34	Instruction manual		1
206	9LH L005 83	Remote controller (RC840)		1
207	Note	Carton box		1
208	9LS P029 51	Cushion		2
209	—	Poly sack		1
210	—	Soft sack		1

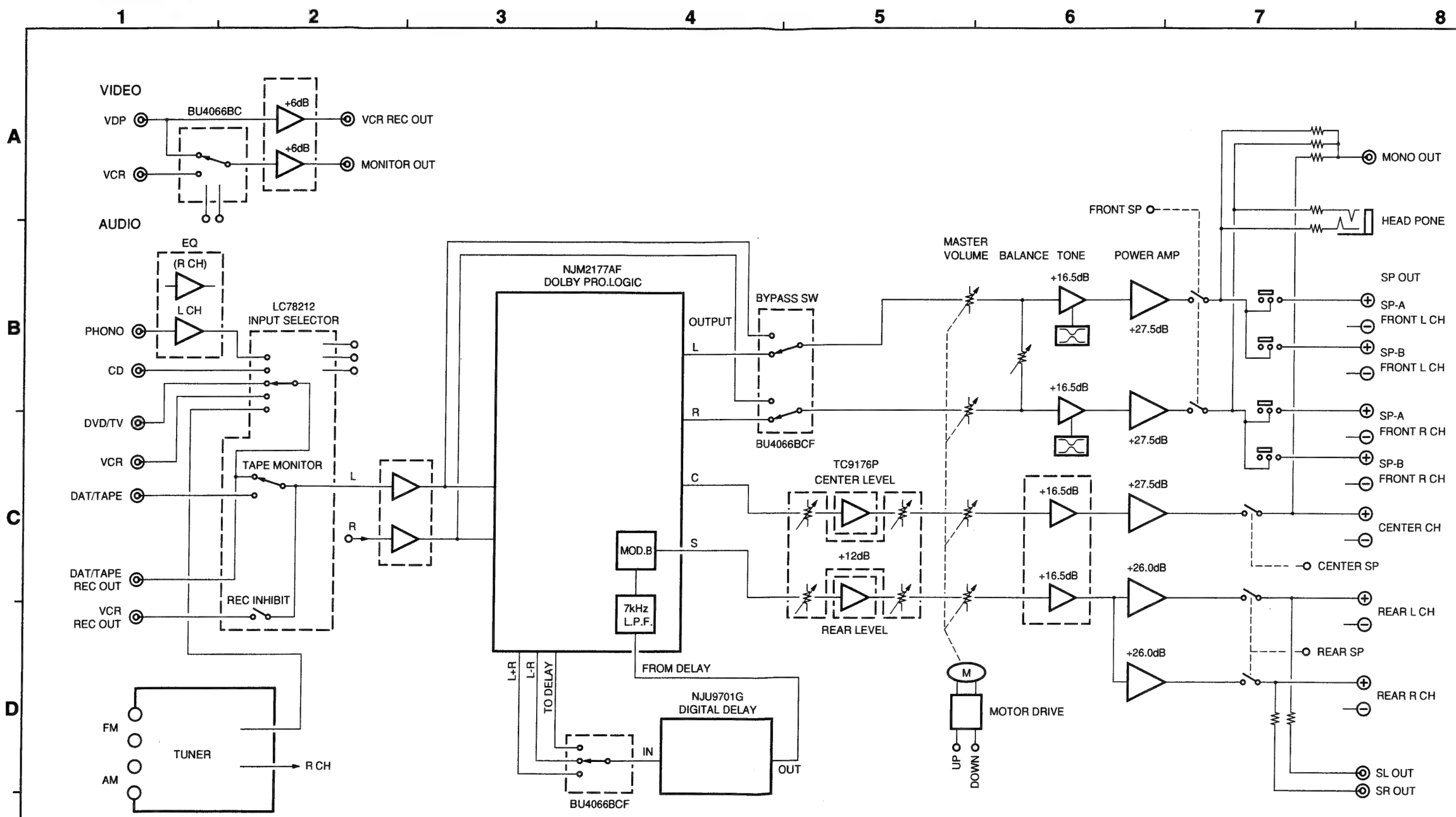
ADDENDUM PARTS LIST

Ref. No.	Part Name	Part No.			
		AVR-750	AVR-760	AVR-770	AVR-780
1	Main P.W.B. Ass'y				
2	FL P.W.B. Ass'y				
⚠★ 6	Euro converter plug	9LE P000 62	–	9LE P000 62	–
⚠ 7	AC Cord	9LE V004 44	9LE V004 45	9LE V004 44	9LE V004 45
9	Inner panel	9LP H051 81	9LP H051 82	9LP H051 83	9LP H051 84
14	Power trans	9LB T010 23	9LB T010 22	9LB T010 23	9LB T010 22
16	Front panell	9LP H051 54	9LP H051 55	9LP H051 56	9LP H051 57
21	Rear plate	9LQ A009 93	9LQ A009 94	9LQ A009 95	9LQ A009 96
⚠ 25	Fuse T5A	9L2 7280 70	–	9L2 7280 70	–
⚠ 26	Fuse T2.5A	–	9L2 7277 22	–	9L2 7277 22
⚠ 27	Fuse T2.5A	9L2 7277 22	–	9L2 7277 22	–
⚠ 36	Mini trans	9LB T005 33	9LB T005 32	9LB T005 33	9LB T005 32

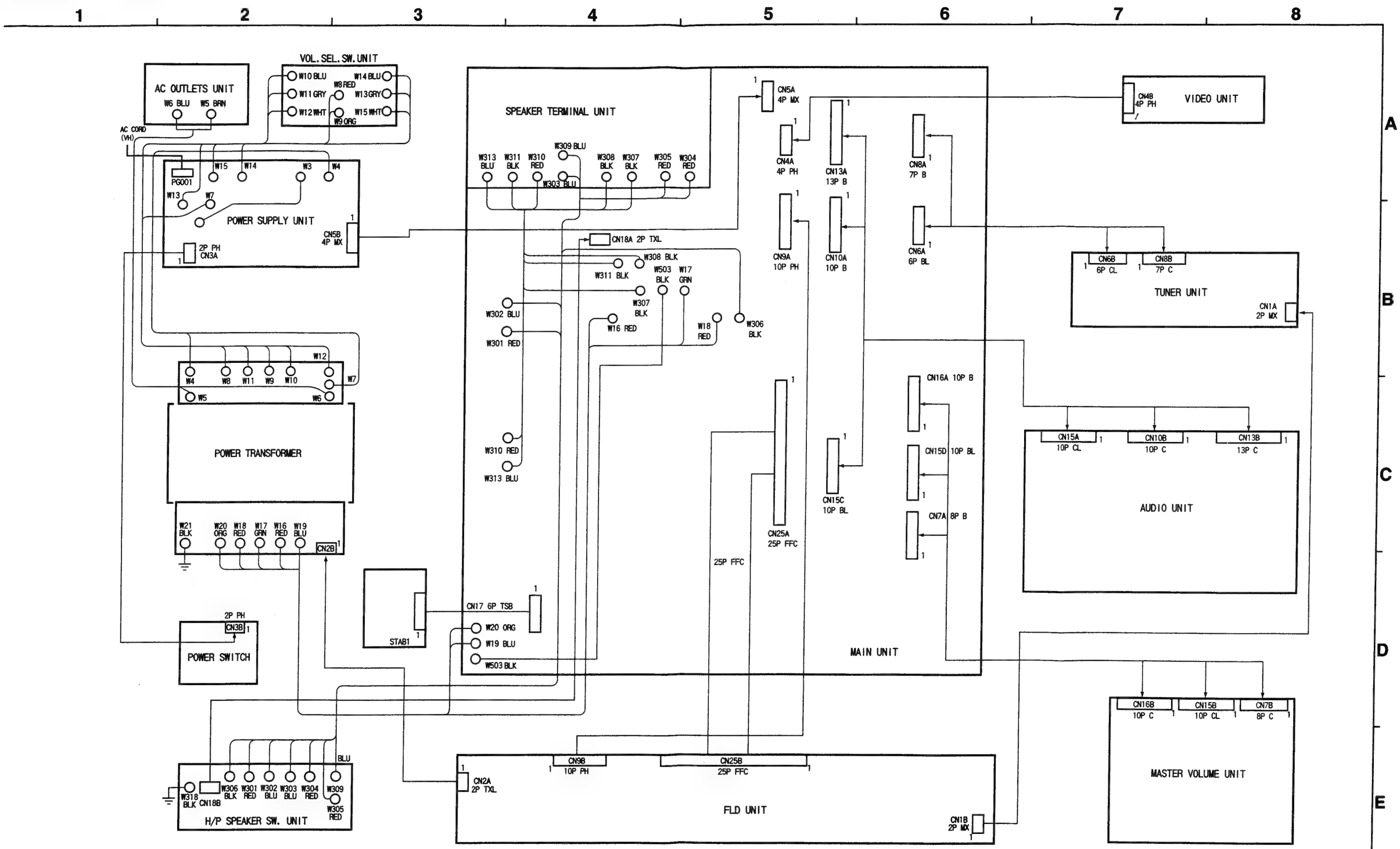
PACKING AND ACCSEEORIES

		AVR-750	AVR-760	AVR-770	AVR-780
207	Carton box	9L SG07 033	9L SG07 034	9L SG07 271	9L SG07 272

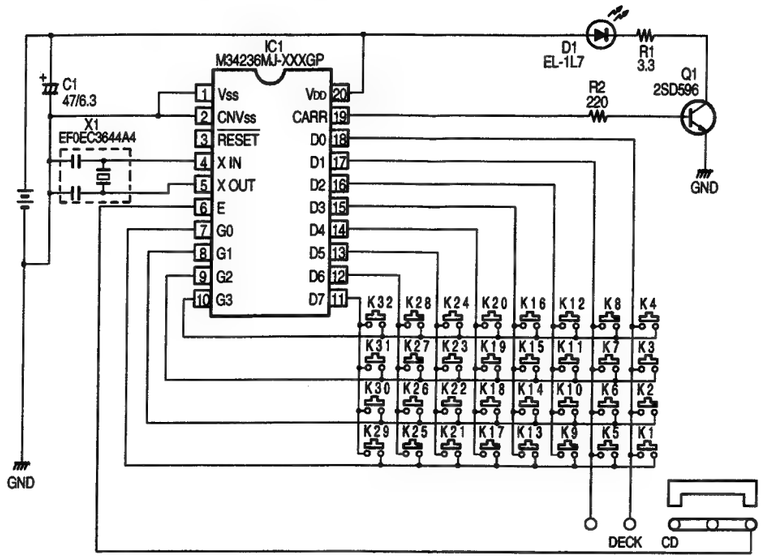
BLOCK DIAGRAM



WIRING DIAGRAM



REMOTE CONTROL UNIT (RC-840)



RC-840 Transmitting Code Table

CD

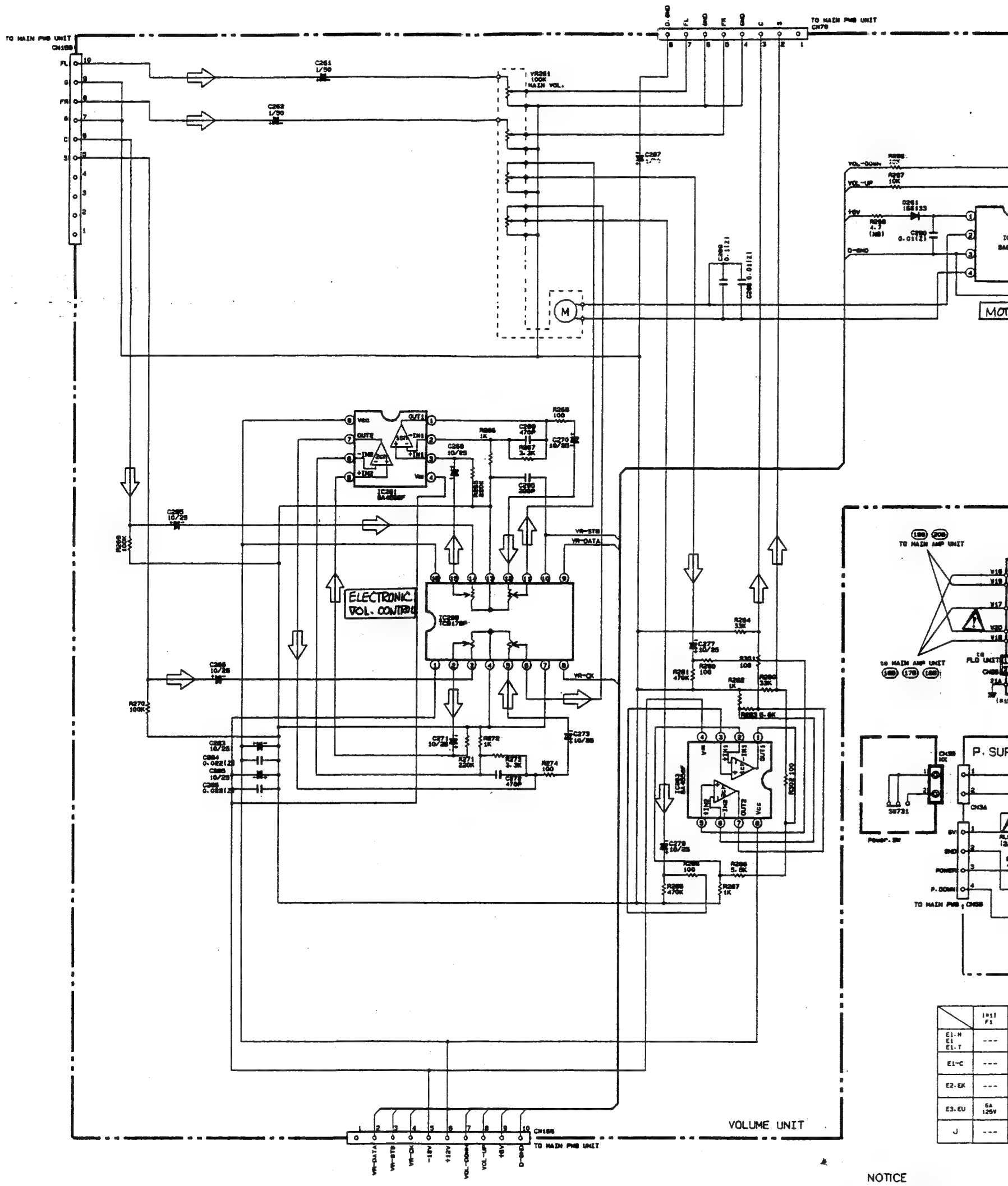
KEY No.	Function	Classification	System address					Data code						Extension		Mask	Judge
			C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	K
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0
2	DISK SKIP+	CD	0	0	0	1	0	1	1	0	1	0	1	1	0	0	0
3	STOP■	CD	0	0	0	1	0	0	1	1	1	1	0	1	0	0	0
4	PLAY►	CD	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0
5	AUTO SEARCH I◄◄	CD	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0
6	PAUSE	CD	0	0	0	1	0	1	0	1	1	1	0	1	0	0	0
7	AUTO SEARTH ►►I	CD	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0
8	PRESET. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	1	0	0
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	1	0	0
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0
11	PHOTO	AV. AMP	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
12	SHIFT	TUNER	0	0	1	1	0	1	0	1	1	0	0	1	1	0	0
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	1	0	0
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	1	0	0
18	V.AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	1	0	0
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	1	0	0
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	1	0	0
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	1	0	0
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	1	0	0
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0

DECK

KEY No.	Function	Classification	System address					Data code						Extension		Mask	Judge
			C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	K
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0
2	PLAY ◄	DECK	0	0	1	0	0	1	1	1	0	1	0	1	0	0	0
3	STOP ■	DECK	0	0	1	0	0	0	1	1	1	1	0	1	0	0	0
4	PLAY ►	DECK	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0
5	REW ◄◄	DECK	0	0	1	0	0	1	1	0	1	1	0	1	0	0	0
6	A/B	DECK	0	0	1	0	0	1	1	0	0	1	0	1	0	0	0
7	FF ►►I	DECK	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
8	PRESET CH. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	1	0	0
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	1	0	0
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0
11	PHOTO	AV. AMP	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
12	SHIFT	TUNER	0	0	1	1	0	1	0	1	1	0	0	1	1	0	0
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	1	0	0
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	1	0	0
18	V. AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	1	0	0
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	1	0	0
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	1	0	0
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	1	0	0
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	1	0	0
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0

SCHEMATIC DIAGRAM (3/5)

1 2 3 4 5 6



	Init F1
E1-N E1 E1-T	---
E1-C	---
E2-EK	---
E3-EU	6A 125V
J	---

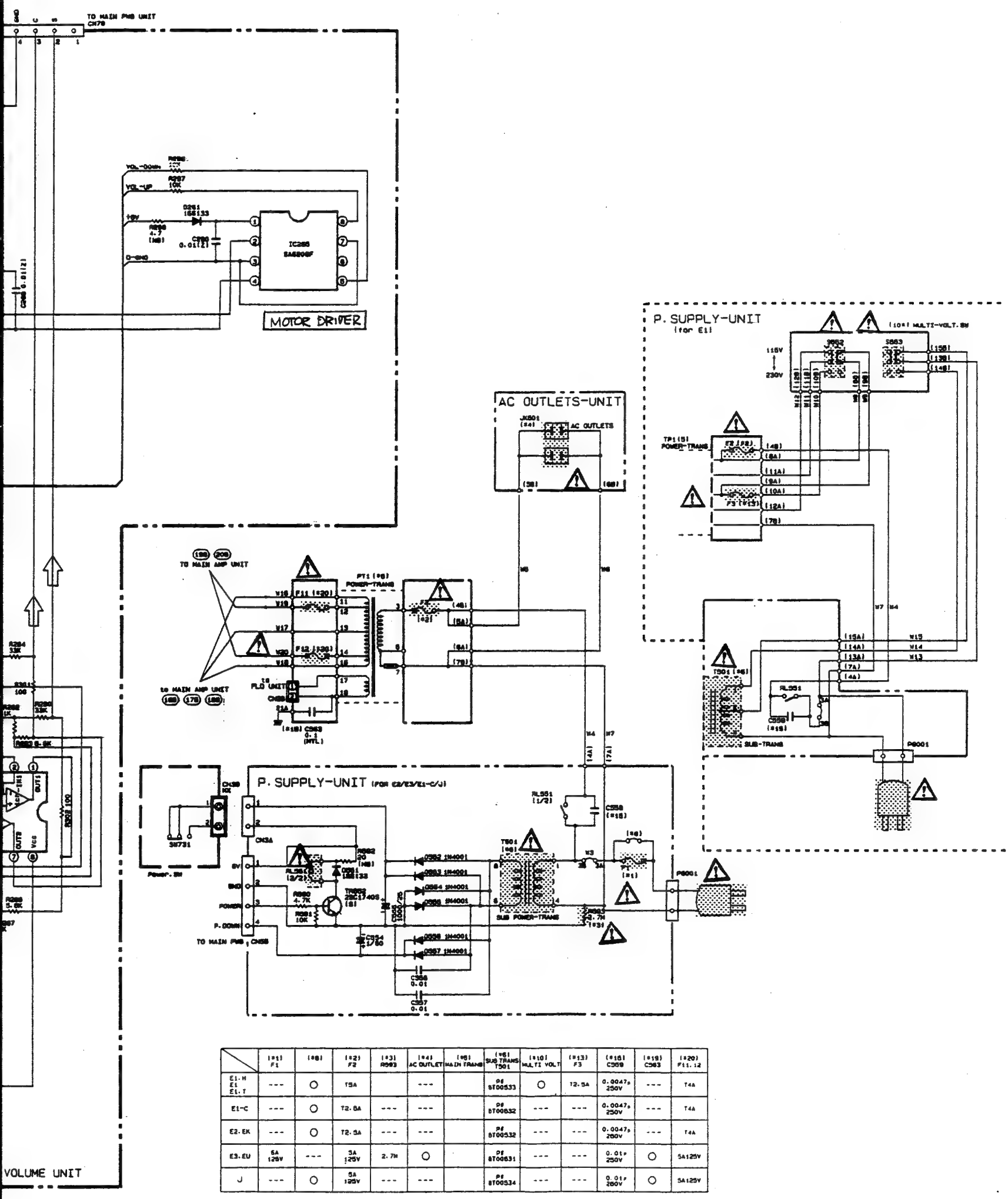
NOTICE

ALL RESISTANCE VALUES IN

ALL CAPACITANCE VALUES IN

EACH VOLTAGE AND CURRENT CONDITION.

CIRCUIT AND PARTS ARE SUB NOTICE.



	(*1) F1	(*8)	(*2) F2	(*3) R993	(*4) AC OUTLET	(*5) MAIN TRANS	(*6) SUB TRANS T501	(*10) MULTI VOLT	(*13) F3	(*16) C959	(*19) C963	(*20) F11, 12
E1-H E1 E1-T	---	O	T5A		---		PE BT00533	O	T2.5A	0.0047μ 250V	---	T4A
E1-C	---	O	T2.5A	---	---		PE BT00632	---	---	0.0047μ 250V	---	T4A
E2.EK	---	O	T2.5A	---	---		PE BT00532	---	---	0.0047μ 250V	---	T4A
E3.EU	5A 125V	---	5A 125V	2.7M	O		PE BT00631	---	---	0.01μ 250V	O	5A125V
J	---	O	5A 125V	---	---		PE BT00534	---	---	0.01μ 250V	O	5A125V

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

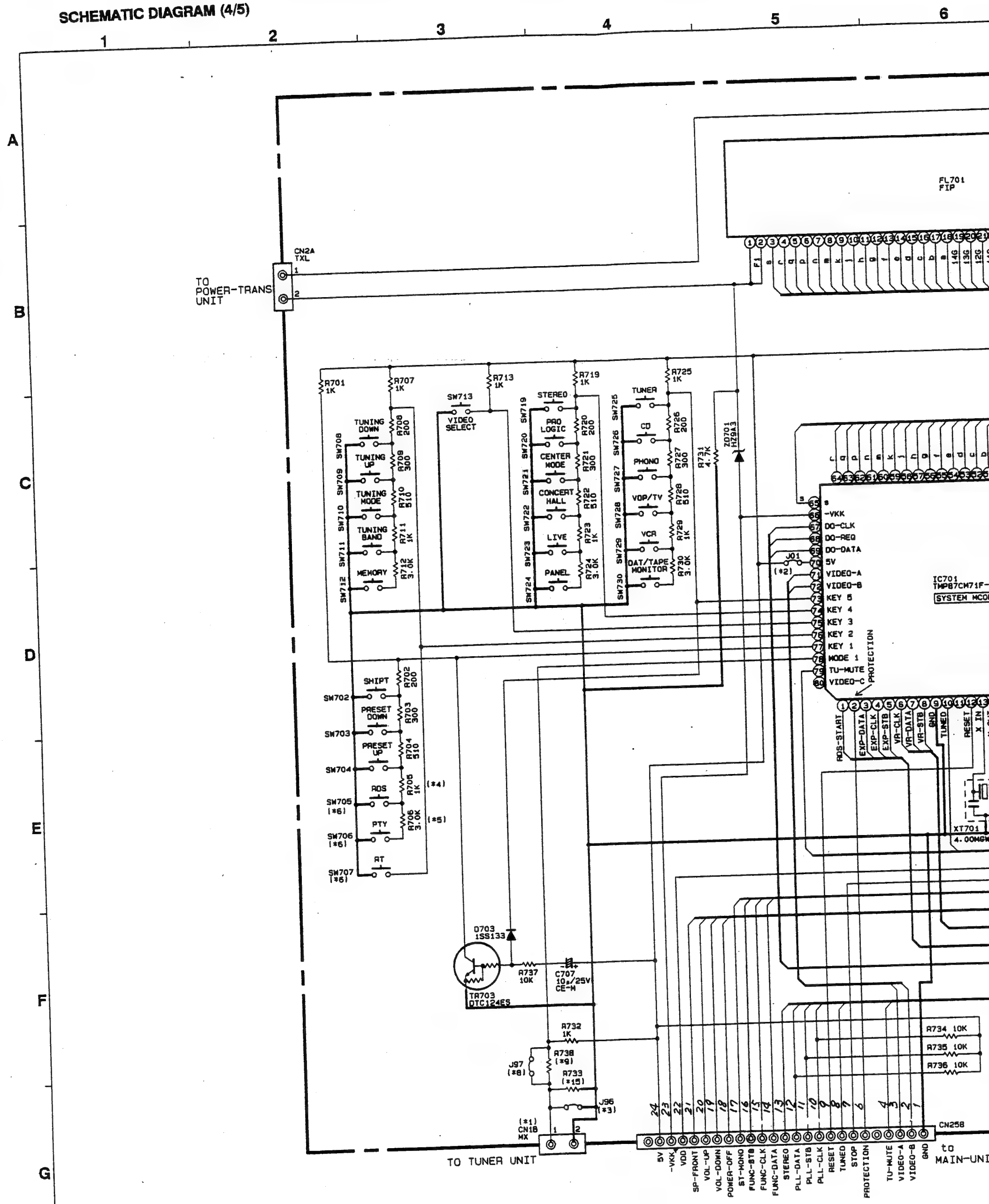
CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer unit the problem is located and corrected.

SCHEMATIC DIAGRAM (4/5)



	(*1) CN18	(*2) RDS -J01	(*3) J96	(*4) R705	(*5) R706	(*6) SW705 ~7	(*7) CN98	(*15) R733	(*16) IC701	(*8) J97	(*9) R738
EU E3	- - -	- - -	- - -	- - -	- - -	- - -	○	2K		JUMPER	- - -
E1	○	- - -	- - -	- - -	- - -	- - -	○	2.7K		- - -	2K
E2/EK	- - -	JUMPER	- - -	1K	3K	○	CN148	4.7K		JUMPER	- - -
J	- - -	- - -	- - -	- - -	- - -	- - -	○	- - -		- - -	- - -
E1-C	- - -	- - -	- - -	- - -	- - -	- - -	○	2.7K		- - -	2K

NOTICE
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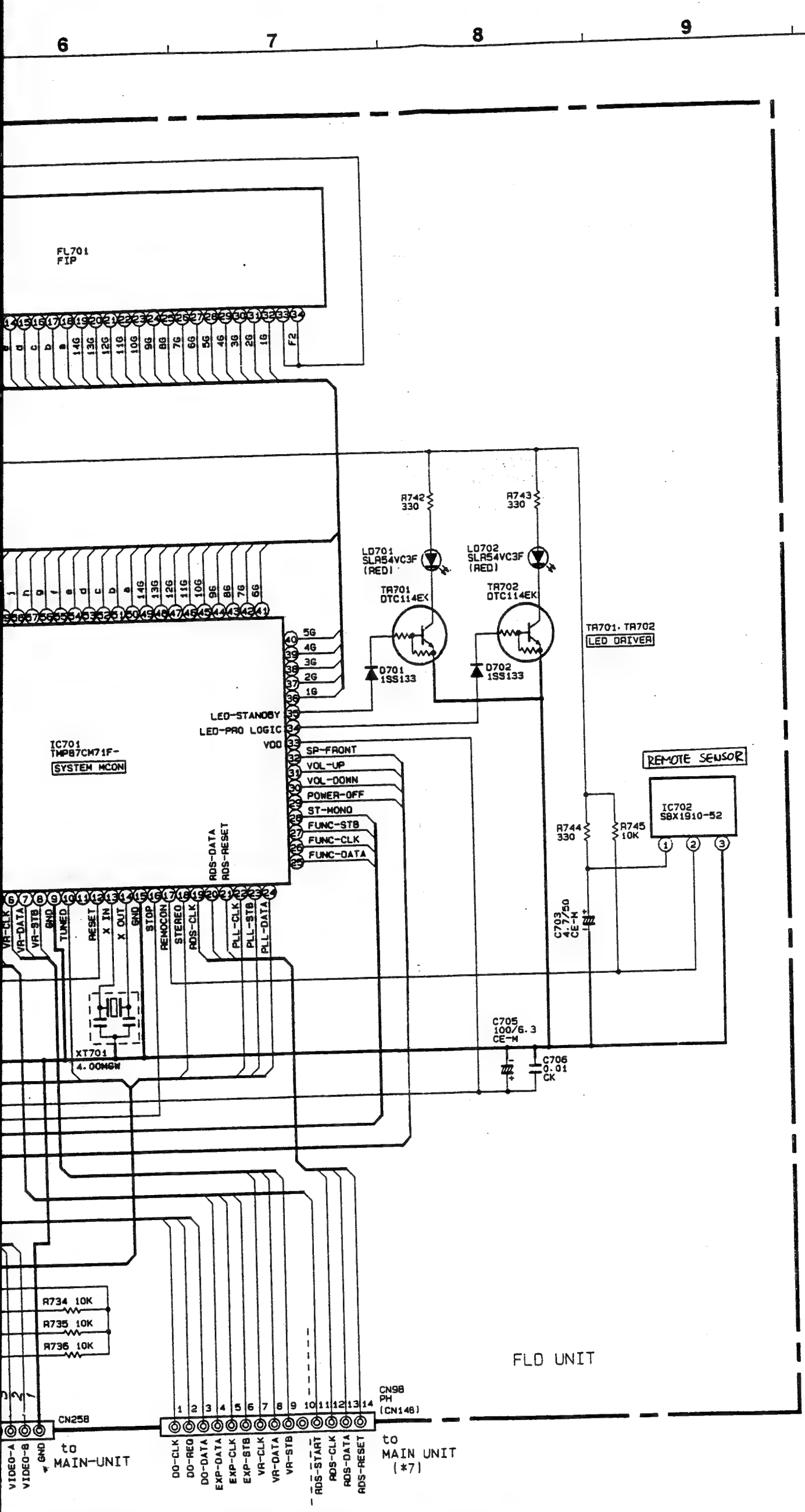
CIRCUIT AND P
NOTICE.



NOTICE

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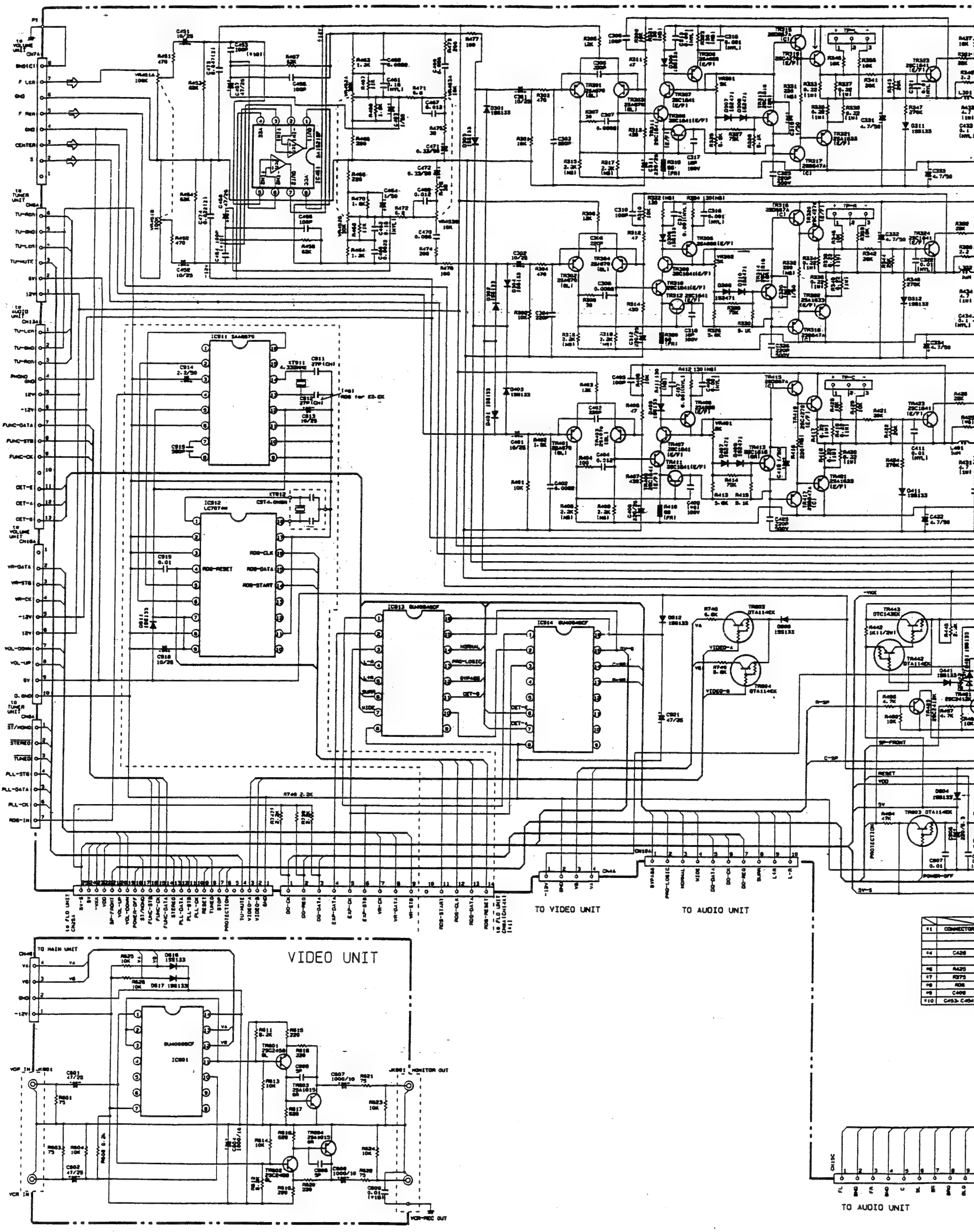
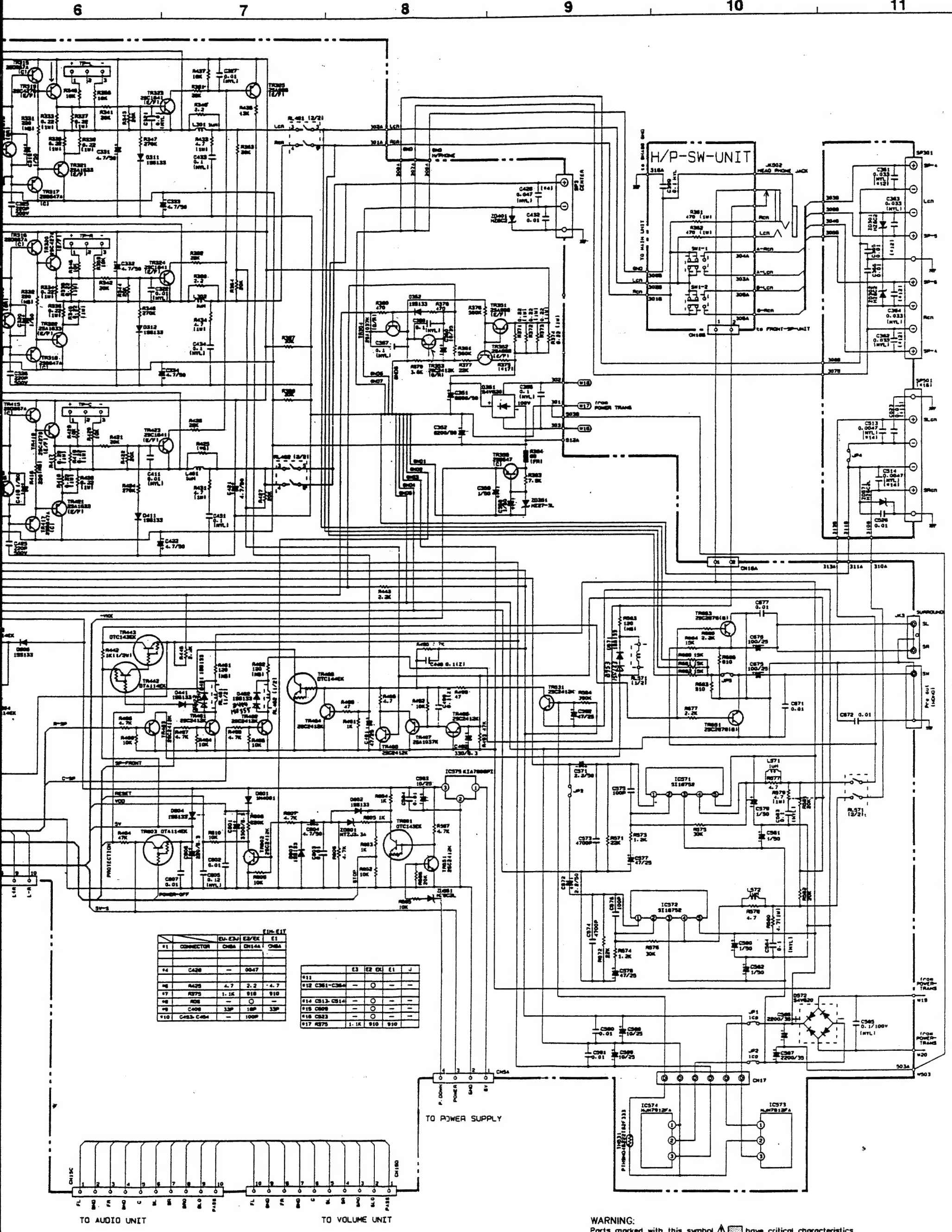
SCHEMATIC DIAGRAM (1/5)

1 2 3 4 5 6





		EU-E3J	E2/EK	E1
#1	CONNECTOR	CN5A	CN14A	CN5A
#4	C428	—	0047	
#6	R425	4.7	2.2	4.7
#7	R575	1.1K	910	910
#8	R06	—	O	—
#9	C408	33P	18P	33P
#10	C453-C454	—	100P	

	E3	E2 EK	E1	J
#11				
#12 C361-C364	—	O	—	—
#14 C513-C514	—	O	—	—
#15 C509	—	O	—	—
#16 C523	—	O	—	—
#17 R575	1.1K	910	910	

NOTICE

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ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

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CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

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CAUTION:

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WARNING:

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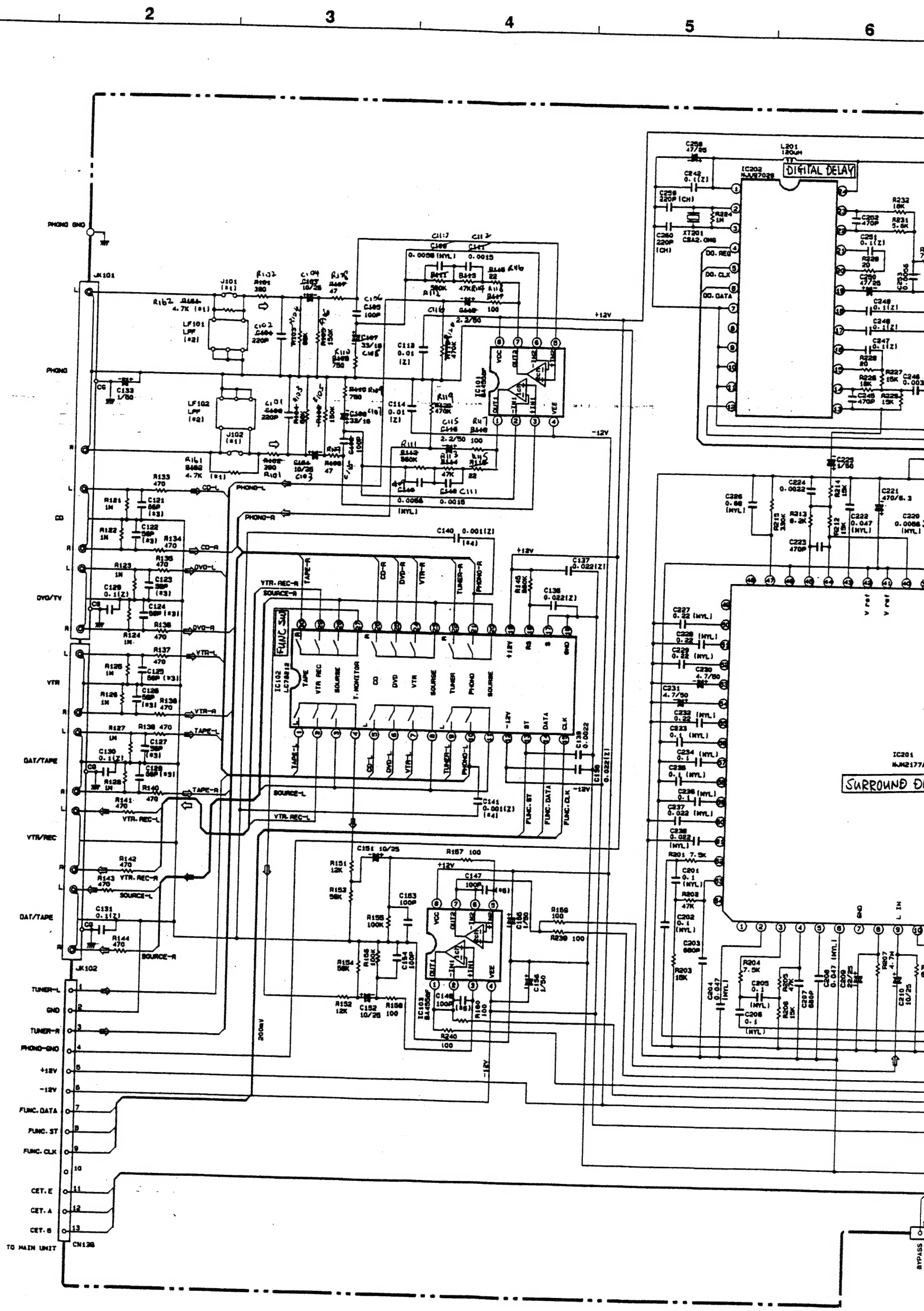
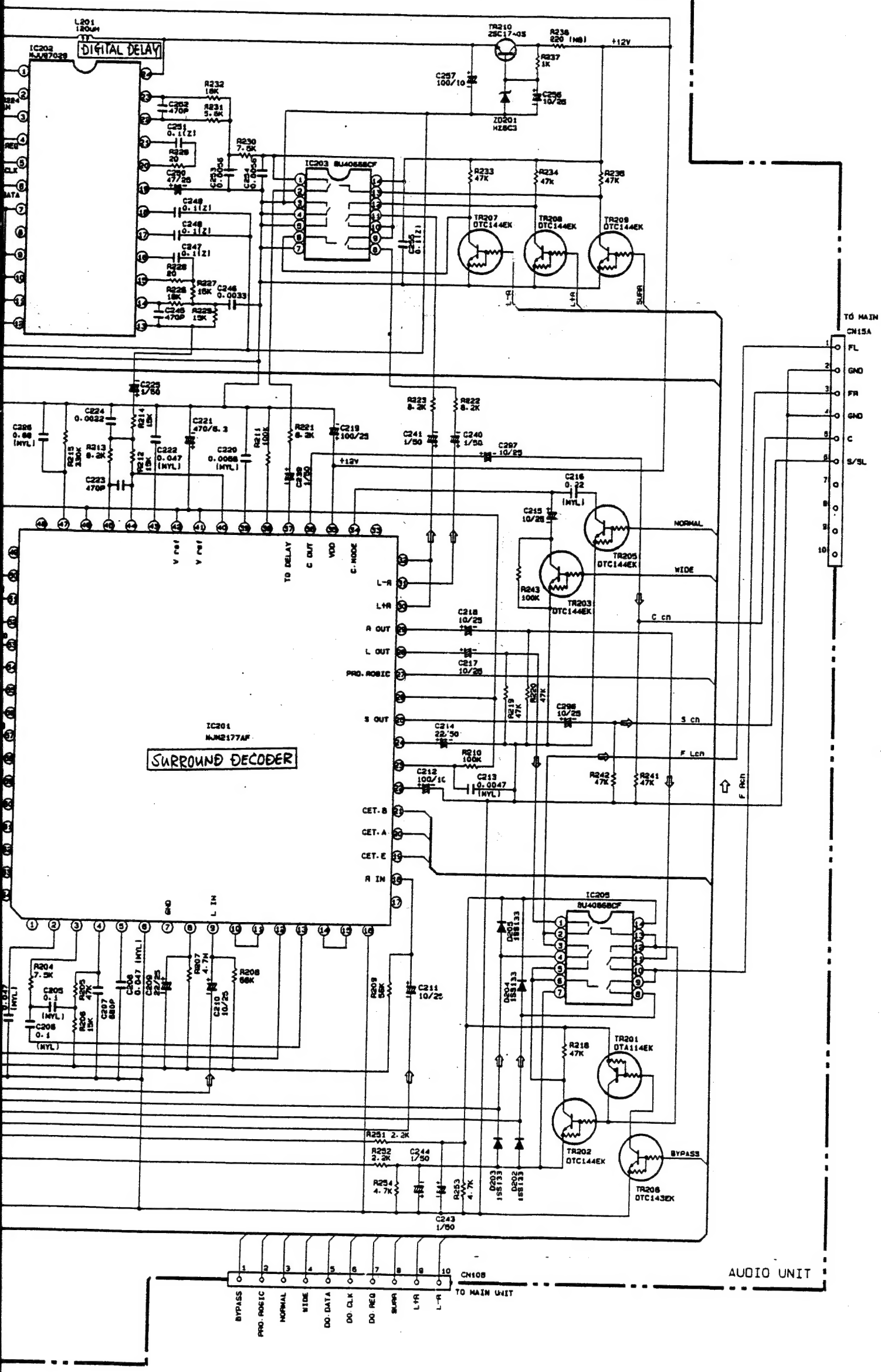
SCHEMATIC DIAGRAM (2/5)



NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,0
ALL CAPACITANCE VALUES IN MICRO FAR
EACH VOLTAGE AND CURRENT ARE MEAS
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CH
NOTICE.



NOTICE

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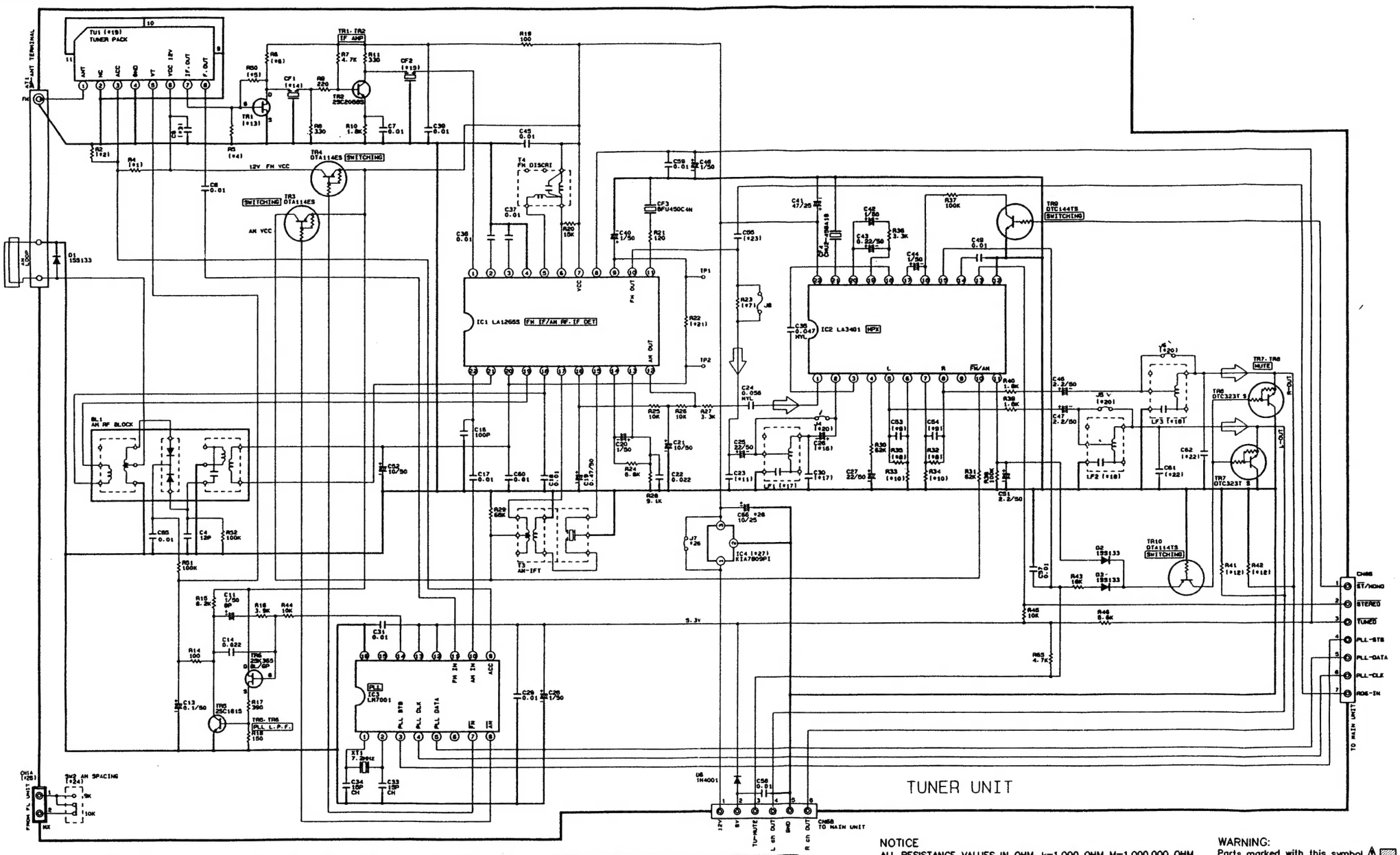
SCHEMATIC DIAGRAM (5/5)



	*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*11	*12	*13	*14	*15	*16	*17	*18	*19	*20	*21	*22	*23	*24	*25	*26	*27	*28
	R4	R2	C5	R5	R50	R6	R23	R32-R35	C53-C54	R33-R34	C23	R41-R42	TR1	CF1	CF2	C26	LF1-C30(560P)	LF2-LF3	TU1	J4-5-6	R22	C51-C62	C56	SW2	CN1A	J7	IC4	C66
E2/EK	10K	5.6K	0.01	390	—	330	1.2K	150K	330P	180K	—	4.7K	2SK161	SFT10.7 MS2-A	SFT10.7 MS2-A	22/50	○	○	4-TUNE	—	39K	0.0047	120P	—	—	○	—	—
E3/EU	—	—	—	1K	100	—	JUMPER	100K	680P	120K	100P	6.8K	—	SFE10.7 MA-B	SFE10.7 MS26-A	—	—	—	3-TUNE	JUMPER	18K	—	—	—	—	○	—	—
E5-1-E1-1 E1	—	—	—	1K	100	—	JUMPER	100K	680P	120K	100P	6.8K	—	SFE10.7 MA-B	SFT10.7 MS26-A	—	—	—	3-TUNE	JUMPER	39K	—	—	○	○	○	—	—
E1-C	—	—	—	1K	100	—	JUMPER	100K	680P	120K	100P	6.8K	—	SFE10.7 MA-B	SFE10.7 MS26-A	—	—	—	3-TUNE	JUMPER	39K	—	—	—	—	○	—	—
J	—	—	—	1K	100	—	JUMPER	150K	330P	180K	100P	6.8K	—	SFE10.7 MA-B	SFE10.7 MS26-A	—	—	—	3-TUNE	JUMPER	18K	—	—	—	—	—	○	○

NOTICE

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